FINAL PLAN OF REMEDIAL ACTION

Former Draper King Cole Vegetable Cannery

Milton, Delaware

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Department of Natural Resources and Environmental Control
Division of Air and Waste Management
Site Investigation and Restoration Branch

TABLE OF CONTENTS

1.0	INTRODUCTI	ON	1
2.0	SITE DESCRI	PTION AND HISTORY	2
2.1	SITE AND PRO	JECT HISTORY	3
3.0	INVESTIGAT	ON RESULTS	4
3.1	PRELIMINARY	ENVIRONMENTAL EVALUATION	4
3.2		VESTIGATION	
3.3		ONS	
3.4		S EVALUATION	
3.5	UST INVESTIG	GATION	6
3.6	CONTAMINAN	TS OF CONCERN AND ANALYTICAL RESULTS	7
		creening and Laboratory Analytical Results	
	3.0.1.171	eld Screening Results ST Laboratory Analytical Results	8
	3.6.1.3Pr	eliminary Environmental Evaluation Laboratory Analytical Results	9
	3.6.1.4 R	emedial Investigation Laboratory Analytical Results	9
4.0	REMEDIAL A	CTION OBJECTIVES1	3
5.0	FINAL PLAN	OF REMEDIAL ACTION1	4
6.0	PUBLIC PART	ICIPATION1	6
		11	U
7.0	DECLARATIO	N	6
		LIST OF FIGURES	
FIGUR	E 1. SITE I OC.	ATION MAP 17	7
FIGUR	E 2: DROPOSEI	D DEVELOPMENT (OU-1 AND OU-2) 18	/
FIGUR	E 2. I KOI OSEI E 3. VCP DETE	RMINATION AREA	3
FIGUR	E 4: HISTORIC	SITE PLAN	1
FIGUR	E 5. SAMDI E I	OCATION MAP)
HOUK	E J. SAIVII LE L	LIST OF APPENDICES	Į
		LIST OF AFFENDICES	
APPEN	IDIX 1: SUMMA	RY OF SITE DATA (TABLES 1-13)22	2
APPEN	DIX 2: SUMMA	RY OF RISK ASSESSMENT DATA (TABLES 14 A-18B)23	3
APPEN	DIX 3: SUMMA	RY OF REMEDIAL ALTERNATIVE ANALYSIS (TABLES 19 AND 20) 24	ļ

1.0 INTRODUCTION

The Former Draper King Cole Vegetable Cannery (Cannery or site) is located on Chestnut Street, in Milton, Delaware (Figure 1). In order to determine the potential for environmental liability prior to the development of the site, Cannery Village, L.L.C. (Cannery Village) entered into the Department of Natural Resources and Environmental Control's (DNREC's or Department's) Voluntary Cleanup Program (VCP) under the provisions of the Delaware Hazardous Substance Cleanup Act (HSCA), 7 Del. C. Chapter 91. Through a VCP Agreement, Cannery Village agreed to investigate the potential risks posed to public health, welfare and the environment at the site. Cannery Village contracted Ten Bears Environmental, L.L.C. (Ten Bears) to perform a remedial investigation/feasibility study (RI/FS) of the site.

The site was divided into two (2) operable units (OUs) to assess future development options (Figure 2). OU-1 consists of the areas proposed for development as residential use (apartments, single and multi-family dwellings), with open greenways and recreational areas, and is located on the northeastern and southern portions of the site. OU-2 consists of the area proposed for nonresidential use (biotechnology/agribusiness, commercial/retail/warehousing) and is located on the northwestern and center areas of the site.

The purpose of the RI was to: 1) understand the nature and extent of any soil, sediment and/or groundwater contamination at the site, and 2) evaluate risks to public health, welfare and the environment associated with any identified contamination. Finally, Cannery Village agreed to perform, if necessary, a FS that would identify and recommend a remedial action, if required by the Department. Cannery Village desires to obtain a Certification of Completion of Remedy from DNREC upon completion of all required tasks.

This document is the Department's final plan of remedial action (final plan) for both OU-1 and OU-2 at the site. It is based on the results of the previous investigations performed at the site. The final plan is issued under the provisions of the HSCA and the Regulations Governing Hazardous Substance Cleanup (Regulations). It presents the Department's assessment of the potential health and environmental risks posed by the site.

In February 2003, DNREC issued the proposed plan of remedial action (proposed plan) for the site based on previous investigations. As described in Section 12 of the Regulations, DNREC provided notice to the public and an opportunity for the public to comment on the proposed plan. At the comment period's conclusion, DNREC reviewed and considered all of the comments received and then issued this final plan. The final plan designates the selected remedy for the site. The proposed plan, all investigations of the site, the comments received from the public, DNREC responses to those comments, and the final plan will constitute the Remedial Decision Record for the site. No comments from the public were received.

Section 2.0 presents a summary of the site description, site history and previous investigations of the site. Section 3.0 provides a description of the investigation results. Section 4.0 presents a discussion of the remedial action objectives (RAOs). Section 5.0 presents the proposed plan of

remedial action for the site. Section 6.0 discusses public participation requirements and Section 7.0 presents the director's declaration.

2.0 SITE DESCRIPTION AND HISTORY

The site is located on Chestnut Street in Milton, Sussex County, Delaware. The area addressed by the RI/FS consists of portions of three tax parcels (Tax Parcel Nos. 2-35-20.11-52, 2-35-20.11-53, and 2-35-20-53) totaling approximately 35 acres (Figure 3). To simplify future record keeping, Cannery Village intends to subdivide the portions of the three tax parcels so that the VCP determination area will consist of separate tax parcels.

The site is located in a mixed-use area of Milton, Delaware. Residential properties are located north, south, and west of the site. Agricultural properties are located east and south of the property. Commercial properties are present north of the site. A grain-distribution/processing facility and a lumber are present immediately west of the property, across Chestnut Street. A vehicle maintenance facility owned and operated by Cannery Village is present approximately 500 feet southwest of the site. A small creek, Round Pole Branch, is located at the site.

The site historically was used to process, can, and freeze vegetables. During its operation, the majority of the canning facility (the western portion of the site) was primarily covered with buildings. Concrete and earthen structures formerly used to treat process wastewater from the vegetable-canning operations remain on the eastern portion of the site. These structures include a holding tank, chlorine contact tank, flocculation tank, and three lagoons (one of which was lined and used for detention/settling), along with appurtenances, such as pump houses and piping. Some of the former structures have been removed from the property.

The wastewater treatment facilities have been decommissioned in accordance with the DNREC-Division of Water Resources requirements. The RI/FS work plan included a copy of a letter from the Division of Water Resources indicating completion of the treatment plant closure activities. The disposition of the remaining sludge in a concrete holding tank and the lined lagoon remains to be addressed as part of the proposed remedial action at the site.

The site is currently being redeveloped for industrial, commercial, and residential uses. Figure 4 shows a historic site plan of the former facility provided by Cannery Village. According to Cannery Village personnel, this plan depicts the facility layout and building configuration similar to that present on site at the start of building demolition activities. Buildings 25, 26, and 33, as noted on the plan, remain intact and are being renovated as part of site redevelopment. The remaining site buildings shown have been demolished, including a majority of the concrete floor slabs. As indicated on the plan, the former buildings were interconnected and covered a significant area (approximately 16 acres) of the western portion of the property.

Round Pole Branch traverses north-south through the property and separates the former wastewater treatment area (eastern portion) from the canning facility (western portion). The remainder of the canning facility area is primarily covered by the buildings, pavement or gravel.

A limited area of the canning facility area is vegetated. Railroad tracks extend east-west through the northern end of the western portion of the property. Other than the remaining treatment plant structures, much of the wastewater treatment area is covered with vegetation.

A chain-link fence encircles most of the site along the perimeter, and along portions of the former cannery facility. Vehicle access to the site is limited to gated-entry points from Chestnut Street through the adjacent property and an access road from Atlantic Street to the former wastewater treatment area.

2.1 Site and Project History

The Draper King Cole Vegetable Cannery employed over 1,000 people during its operation. The business experienced a rapid decline in the 1990s. Hanover Foods of Pennsylvania, Inc. purchased the business in April 1999 and continued warehousing and distribution activities at the site through mid-October 1999. After Hanover Foods discontinued operations at the site, remaining activity generally consisted of machinery and equipment dismantling by Hanover Foods contract personnel. Cannery Village purchased the site in October 2000 and has since completed the site preparation work described above. A fire reportedly caused minimal damage to the property in July 2001.

Historically, the vegetables were cooked and canned in fresh water. Process wastewater was discharged to the wastewater treatment plant located on the eastern portion of the property. Treatment processes included sedimentation, flocculation, and chlorination. Two sprayirrigation basins received the accumulated sludge. Treated wastewater was discharged to Round Pole Branch and non-contact cooling water was also discharged to Round Pole Branch on the southern portion of the site. National Pollutant Discharge Elimination System (NPDES) permits were obtained for both discharges.

Historic Sanborn Fire Insurance (Sanborn) maps were reviewed to identify former operations/areas of potential environmental concern. Canning operations apparently began on the western portion of the site some time prior to 1911. The Sanborn map dated 1911 indicates that the facility consisted of a main building referred to as "H. R. Draper Tomato & Pea Canning," "H. R. Draper Cannery," and "Draper Canning Co.," a warehouse, and at least one outbuilding. The location of the main building on the Sanborn map roughly corresponds with the location of Building 2 on the facility historic site plan (Figure 4).

The main building reportedly housed the vegetable-canning operations, a pea "viner," a "gas machine" which was used for generating gas for capping cans, and a warehouse for canned goods. The 1911 map also indicated the presence of a buried "gasol" tank at the property, just south of the main building, as well as the presence of railroad tracks at the site.

Historically, the Draper vegetable-canning facility utilized both fuel oil and coal to provide the majority of heat for buildings and steam for vegetable processing. Based on information provided by Cannery Village personnel, coal ash and slag were deposited on selected areas of the site (i.e., near the wastewater treatment structures and along the border of the former building

complex). In addition, two fuel oil underground storage tanks (USTs) and one used oil UST were removed from the site as part of the interim actions performed by Cannery Village.

Prior to 1944, the northeastern portion of the wastewater treatment area contained several small buildings, most of which were demolished sometime prior to 1955. An access road was constructed in this area some time prior to 1944. The wastewater treatment area of the property was also used as a quarry or an open pit mine from the 1950s to the 1980s. A building and possible rows of stockpiled materials were depicted on historical mapping from this time period.

Several industrial sites were present in the surrounding area; primarily west, north and south of the site along Chestnut and Federal Streets prior to 1911. The former industrial and commercial facilities identified on the Sanborn maps include: a saw and planing mill and supplier of building materials, lime, coal, and cement; a lumber yard; a warehouse for shirt materials; a clothing manufacturer; a "Venetian blind laundry;" and an automobile-repair facility.

Two gasoline USTs were noted in the Chestnut Street right-of-way, on the 1923 and 1937 Sanborn maps. The tank locations roughly correspond with the location of the Company Store operated off site by the former canning company. DNREC records indicate that the two USTs were removed from the "King Cole Company Store."

Mapped ground surface elevations at the property ranged from approximately 10 to 30 feet above mean sea level (msl). Review of the topographic relief at the property indicated that storm water runoff at the site would likely flow toward Round Pole Branch, which drains to the Broadkill River, approximately 2,000 feet north of the site.

The groundwater table in the vicinity of the site is mapped at an elevation of approximately 10 feet above msl and ranges from just below the ground surface level to approximately 20 feet below ground surface level. Groundwater flow direction in the vicinity of the site is expected to follow general surface topographic trends toward Round Pole Branch.

3.0 INVESTIGATION RESULTS

Several environmental investigations were conducted at the site, which comprise the RI/FS. These consist of a preliminary environmental evaluation prior to entry of the site into the VCP, and additional exploration, sampling and laboratory analysis to complete the RI/FS, and DNREC-approved interim actions including the removal of the three USTs.

3.1 Preliminary Environmental Evaluation

The preliminary environmental evaluation consisted of 56 Geoprobe[®] soil borings, 24 hand-augered soil borings, and three manual excavations (Figure 5). On September 4 and 5, 2001, Ten Bears Environmental L.L.C. (Ten Bears) completed the initial evaluation consisting of 26 of the Geoprobe[®] soil borings and 12 hand-augered soil borings to collect soil samples for field screening and laboratory analysis. In an attempt to delineate a surface layer of coal ash and slag

fill observed during the initial evaluation, an additional 30 Geoprobe[®] soil borings, 12 hand-augered soil borings, and three manual excavations were performed on October 15, 2001.

During the preliminary environmental evaluation, a total of 64 grab soil samples were collected for field screening for metals using an X-Ray Fluorescence (XRF) analyzer. In addition, 17 soil samples were collected for screening for polynuclear aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) using immunoassay test kits. A total of four composite samples of sludge from the former wastewater treatment structures were sent for laboratory analysis for waste characterization. Two samples (SS-1 and SS-2) were collected from a concrete holding tank and two samples (SS-3 and SS-4) were collected from the lined lagoon. The four sludge samples and 16 soil samples were submitted for laboratory analysis for Target Compound List (TCL) volatile and semivolatile organic compounds (VOCs and SVOCs), pesticides, PCBs and Target Analyte List (TAL) metals in accordance with HSCA requirements.

3.2 Remedial Investigation

Based on the results of the preliminary environmental evaluation, and in accordance with the DNREC approved RI/FS work plan, further investigation in the form of remedial investigation (RI) was performed at the site, included 16 Geoprobe® soil borings, the collection of five sediment samples, and the installation and sampling of three groundwater monitoring wells. Free-phase petroleum product was encountered in monitoring well, MW-1, installed near the location of the former 15,000-gallon No. 6 fuel oil UST. On July 31, 2002, additional investigation of groundwater in this area was performed using a Geoprobe®. This consisted of the installation and sampling of five temporary Geoprobe® well points. Also, a sample of groundwater was collected from the brewery production well. Figure 5 shows the groundwater sample locations.

During the RI field activities, additional soil samples were collected for metals screening using XRF analysis and for PAHs and PCBs screening using immunoassay test kits. Shallow and deep soil samples, as well as samples of soils exhibiting possible impact, were collected from each Geoprobe[®] and hollow-stem auger boring. Also, XRF and immunoassay screening was conducted for five sediment samples collected from Round Pole Branch. The RI sampling activities included laboratory analysis of 11 soil samples and two sediment samples for TCL VOCs and SVOCs, pesticides, PCBs and TAL metals in accordance with HSCA requirements.

3.3 Interim Actions

Cannery Village removed three USTs and the contiguous concrete slabs that covered much of the southern and western portions of the site, as DNREC-approved interim actions in 2002/2003. Cannery Village recycled the concrete building slabs that remained after removal of the on-site buildings. Approximately 4,000 to 6,000 cubic yards of concrete were removed and stockpiled on the southeastern portion of the site. The concrete was crushed for on-site reuse as structural fill. Soil exposed beneath the concrete slabs appeared to be consistent with the results of the preliminary environmental evaluation, as no evidence of contamination was observed in the

exposed soil. A few small areas of fine-grained coal ash were identified near the HA-GP-7 and HA-GP-7A soil boring locations shown on Figure 5.

The UST removals included a 10,000-gallon tank and a 15,000-gallon tank reportedly used to store No. 6 fuel oil, and a 2,000-gallon used oil tank. Ten Bears provided oversight including field screening with a photo-ionization detector (PID), soil logging, and collecting soil samples for laboratory analysis.

During the UST removals, 11 soil samples were collected for laboratory analysis for DNREC parameters for "Tier 0" evaluation, by SW-846 methods. Soil sampling during the grading interim action included the collection of five post-excavation soil samples and five composite samples of stockpiled soils for laboratory analysis for TCL VOCs and SVOCs, pesticides, PCBs and TAL metals in accordance with HSCA requirements.

3.4 Surface Soils Evaluation

Surface soils across the site consisted of silt and sand containing concrete, gravel, and miscellaneous debris/fill. During the evaluation, several isolated areas of concern were identified based on field observations, including petroleum-impacted soils in the vicinity of the former UST areas, semi-solid wastewater sludge in two on-site wastewater treatment structures, stained soils surrounding former equipment pads and a thin layer of coal ash and slag observed at or near surface grade in several areas of the site.

Coal ash and slag were noted at surface grade in several areas at the site. These areas primarily included the roadways in the wastewater treatment area and unpaved areas to the south and east of the former concrete slab-covered area. Figure 5 includes the approximate horizontal limits of the observed coal ash/slag fill materials. Appendix 1-Table 1 summarizes the observed thickness of the coal ash. Several small areas of coal ash were also observed beneath the former concrete slab-covered areas.

Two different types of coal ash/slag were observed. The majority of the observed coal ash appeared to consist primarily of relatively fine-grained black material with a few gravel-sized particles of partially-combusted coal. Approximately 600 to 800 cubic yards of a copper-colored coarse-grained coal ash/slag were also observed to the west of Building 26 upon removal of the concrete slab in preparation for construction of the brewery entrance.

3.5 UST Investigation

Petroleum-impacted soils were encountered in several soil borings completed at the site. These soil borings were located on the western portion of the site near the west end of Building 26. Heavily stained soils were observed in soil borings completed in the vicinity of the former 15,000-gallon No. 6 fuel oil tank located adjacent to the southern wall of Building 26. Heavily stained soils were also observed immediately beneath the former 10,000-gallon No. 6 fuel oil tank upon its removal. Small areas of moderately stained soils were observed near the 2,000-gallon used oil tank and several nearby equipment pads. The USTs were removed and post-

excavation samples were collected in accordance with DNREC regulations and guidance documents. The following summarizes the observations in each tank area:

15,000-Gallon No. 6 Fuel Oil UST

Coastal Pump & Tank, Inc. (Coastal) removed the 15,000-gallon No. 6 fuel oil tank from just outside the southern wall of Building 26 near the western side during the period from April 18 through April 25, 2002. Based on field observations, the tank appeared to have been drained, but not cleaned, prior to abandonment, leaving a layer of product and sludge in the bottom of the tank. A few hundred gallons of sludge were also observed above the sand near each end of the tank. Approximately 87 tons of soil associated with this tank removal were transported to Clean Earth for treatment. As previously noted, free product was encountered in MW-1, which was installed in the vicinity of this tank.

2,000-Gallon Used Oil UST

Cannery Village contracted International Petroleum Corp. (IPC) to remove the contents of the 2,000-gallon used oil tank located near the southwestern corner of Building 26. IPC pumped approximately 2,000 gallons of oil with some water from the tank. On April 19, 2002, Coastal removed this tank.

10,000-Gallon No. 6 Fuel Oil UST

The 10,000-gallon tank was discovered on June 19, 2002 in the area now known as the brewery entrance. Based on site observations of the piping and tank configuration, the tank was likely used to store No. 6 fuel oil. The tank was removed on July 31, 2002.

3.6 Contaminants of Concern and Analytical Results

Based on the results of the investigations completed at the site, the extent of contaminant impact is limited to a few isolated areas. The primary contaminants of concern (COCs) are associated with the coarse-grained slag, petroleum-impacted soils, wastewater treatment sludge in the unlined lagoon, and stockpiled soils for waste disposal located near the southeast corner of the former concrete slab. The stockpile of coarse-grained slag is estimated to be approximately 600 to 800 cubic yards. Petroleum-impacted soils are estimated to be approximately 7,000 to 10,000 cubic yards in the vicinity of the 15,000-gallon UST and approximately 2,000 to 4,000 cubic yards of wastewater sludge. The volume of soils stockpiled for waste disposal near the southeast corner of the slab is estimated to be approximately 1,500 to 2,000 cubic yards.

3.6.1 Field Screening and Laboratory Analytical Results

An initial screening of the analytical results was performed to eliminate contaminants that presented minimal risk from further consideration. The initial screening for data reduction

Former Draper King Cole Vegetable Cannery Site

Final Plan of Remedial Action

purposes consisted of a comparison of the maximum concentration detected for each contaminant with the higher of the applicable Uniform Risk-Based Remediation Standards (URS) values or the Default Background Standard (DBS) to identify potential COCs. As a conservative measure, the unrestricted use URS values were utilized for soils in both OU-1 (residential) and OU-2 (nonresidential) areas. The groundwater data was compared with the URS values for Protection of Human Health for Groundwater and the URS values for Protection of the Environment for Surface Water.

3.6.1.1 Field Screening Results

Field screening was performed during the preliminary environmental evaluation and the RI using XRF and immunoassay field-testing kits to help delineate areas of potential environmental concern. The XRF results for the preliminary environmental evaluation and the RI indicated elevated concentrations of several metals throughout the site including chromium, cobalt, iron, mercury and nickel (Appendix1-Table 2). With the exception of the former UST areas, the results of the immunoassay testing, completed as part of the preliminary evaluation, did not reveal any concentrations of PAHs or PCBs. However, the the immunoassay testing completed during the RI indicated several positive results for PCBs and PAHs in sediment and soil samples collected (Appendix 1-Table 3).

The XRF results for the sediment samples indicated elevated concentrations of iron, lead, and zinc. Iron concentrations increased slightly from the upstream to the downstream samples. Lead and zinc concentrations decreased from upstream to downstream. Immunoassay test results indicated PAHs in two upstream samples (SED-1 and SED-3), but not in the downstream samples. The PCB test kit results indicated concentrations above the lower detection limit in SED-3 and SED-4, collected in the central portion of the site. PCBs were not detected above the lower detection limit for the method in the remaining sediment samples.

3.6.1.2 UST Laboratory Analytical Results

During the UST removals at the site, several soil samples collected from the tank-removal excavations contained elevated concentrations of petroleum hydrocarbons in OU-2 (Appendix 1-Table 4). The majority of the petroleum hydrocarbons were identified as No. 6 fuel oil, with concentrations ranging from 3,400 to 68,000 milligrams per kilogram (mg/kg).

Five of the soil samples were analyzed for arsenic; only one sample contained arsenic at a concentration greater than the URS value. This sample, "Slab Removal Slag," was collected from the confined, coarse-grained slag materials encountered during the slab removal to the west of Building 26.

Waste disposal characterization results for the two composite samples collected from the staged petroleum-impacted soils indicated the materials were suitable for treatment or disposal as non-hazardous waste (Appendix 1-Table 5). Results for Toxicity Characteristic Leaching Procedure (TCLP) analysis indicated concentrations for both composite samples were below the applicable

limits for classification of a waste as hazardous under the Resource Conservation and Recovery Act (RCRA) and 7 <u>Del. C.</u> Chapter 63 (the state equivalent of RCRA). The analytical results for all three samples of coal ash analyzed for TCLP metals indicated that the concentrations were below the RCRA limits (see Appendix 1-Table 5).

3.6.1.3 Preliminary Environmental Evaluation Laboratory Analytical Results

As part of the preliminary evaluation, four composite sludge samples and 16 soil samples were collected from OU-1 and OU-2 and submitted for laboratory analysis for TCL VOCs and SVOCs, pesticides, PCBs and TAL metals in accordance with HSCA requirements. The laboratory analytical results indicated that very few contaminants were detected above the respective URS values for unrestricted use. Elevated concentrations of aluminum, antimony, iron, vanadium, PCBs and dieldrin were detected in the composite sludge samples (Appendix 1-Tables 6 and 7). Slightly elevated concentrations of antimony, iron dieldrin, and PCBs, as well as PAH compounds were detected above the respective unrestricted URS in SB-8, SB-9, and SB-10. These soil samples were collected from the former UST areas located in OU-2. Iron, antimony, and slightly elevated concentrations of PAH compounds were also detected in several soil samples collected from OU-1 and OU-2.

3.6.1.4 Remedial Investigation Laboratory Analytical Results

As part of the RI, 11 soils samples, two sediment samples and 11 groundwater samples (both filtered and unfiltered samples) were submitted for laboratory analysis for TCL VOCs and SVOCs, pesticides, PCBs and TAL metals in accordance with HSCA requirements. The results are detailed below:

SOILS

The laboratory analytical results for the soil samples collected as part of the RI identified several COCs for soils including several metals (aluminum, antimony, arsenic, copper, iron, lead, and vanadium), the pesticide dieldrin, PCB aroclors 1254 and 1260, several PAH compounds-(benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene), and the VOC, benzene. Appendix 1-Tables 8 and 9 summarize the soil COCs and associated laboratory analytical results.

Only a few elevated metal concentrations were detected on OU-1 (the residential area). However, several elevated levels of contaminants were detected on OU-2 (the nonresidential area). One or more of the PAH compounds were detected at concentrations above their respective URS values for restricted use in the soil samples collected from petroleum-impacted soils in the vicinity of the southwest corner of Building 26.

One sample (HS2-2) contained arsenic at a concentration greater than the URS value for restricted use. Two samples (HS2-2 and HS2-3) contained lead at concentrations greater than the URS value for restricted use. However, HS2-2 was collected from a relatively small quantity of coarse-grained coal ash observed outside of the brewery entrance. HS2-3 was collected from

miscellaneous fill material observed near the southeastern corner of the former concrete slab area. No other COCs were detected in the soil samples at concentrations exceeding the URS values for restricted use on OU-2.

A number of COCs were detected in the soil and sludge samples collected from OU-2 at concentrations exceeding applicable unrestricted use URS values, but below their respective restricted use URS values. These contaminants were the pesticide dieldrin, the PCB compounds aroclor 1248, 1254, and 1260; benzene; several SVOCs; and several metals. The concentrations of dieldrin and aroclor 1254 that exceeded the respective unrestricted use URS values were detected in the sludge samples collected from the former lined, storage/settling lagoon located on OU-2. The benzene and SVOCs were primarily detected in the soil samples collected from locations impacted by petroleum hydrocarbons near the southwest corner of Building 26 on OU-2.

SEDIMENT

For sediments, the COCs included several metals, pesticides, and SVOCs which were detected at concentrations greater than their respective URS values for sediment and DBSs in both the upstream (SED-1) and downstream (SED-2) samples from the site (Figure 5 and Appendix 1-Table 10).

GROUNDWATER

For groundwater, the COCs included dieldrin, naphthalene, benzene, and tetrachloroethene or perchloroethene (PCE). Appendix 1-Tables 11 and 12 summarize the identified groundwater COCs and associated analytical results.

With the exception of iron and manganese, no contaminants were detected at concentrations greater than the applicable URS values for groundwater in the groundwater samples collected from MW-2 and MW-3 (Appendix 1-Table 11). The groundwater URS values for iron and manganese are based on the EPA's Secondary Maximum Contaminant Levels (SMCLs), which are drinking water standards for odor and taste, and are not based on human health effects. A groundwater to surface water discharge evaluation was not completed for these metals, as the levels do not present an ecological risk.

Neither a groundwater or product sample could be collected from MW-1 in the former UST area due to the viscosity of free product in the well. However, the extent of the free product was delineated by temporary Geoprobe® wells completed on OU-2 (nonresidential area).

The groundwater samples collected from the temporary Geoprobe® wells located on OU-2 contained several COCs at concentrations exceeding the groundwater URS values (Appendix 1-Table 12). These compounds included a trace of thallium, dieldrin, naphthalene, benzene, and tetrachloroethene or perchloroethene (PCE). There is no EPA Maximum Contaminant Level (MCL) for thallium in drinking water. Dieldrin was detected in GW-2, the one sample analyzed

for pesticides, at a concentration of 20 parts per trillion (ppt), which is four times the groundwater URS value of five ppt.

Four of the five temporary Geoprobe® wells contained PCE at concentrations greater than the MCL for drinking water. Three of the groundwater samples also contained traces of 1,1,1-trichloroethane (TCA), which is a possible degradation product of PCE. The PCE detected in the Geoprobe® groundwater samples may have been used as a solvent in label-printing operations, formerly housed in Building 3, located just south of the railroad tracks from Building 26.

The PCE concentrations detected in these samples ranged from 0.007 to 0.027 mg/l, compared with the MCL of 0.005 mg/l. The PCE concentrations were highest in GW-3, diminishing with distance from the GW-3 area. The lowest detectable PCE concentration was reported in GW-4, located furthest downgradient from GW-3 towards Round Pole Branch. Fate and transport modeling and an evaluation of the distribution of PCE (i.e., absence of PCE concentrations in GW-5, located less than 30 feet upgradient of GW-3), suggests that GW-3 is in close proximity to the source of the PCE, and the contaminant plume is limited to this area (Appendix 1-Table 13).

The ground water sample collected from the brewery area well on OU-2 (nonresidential area) contained manganese at a concentration of 0.097 mg/l, slightly exceeding the SMCL threshold value for odor and taste effects. No other contaminant was detected above the URS values for groundwater in the brewery well.

RISK ASSESSMENT

A limited human health risk assessment was completed for the site, in accordance with the DNREC-SIRB Remediation Standards Guidance, the HSCA Guidance Manual, and the EPA's Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part A), dated 1989. The site is divided into two parcels, OU-1 (residential) and OU-2 (nonresidential). The risk assessment included a pathway analysis to identify current and reasonably anticipated future scenarios involving exposure to site contaminants, selection of COCs contributing the majority of risk to potential receptors, and estimation of the associated risk levels for carcinogenic and non-carcinogenic substances. While the risk estimates were performed in accordance with the Remediation Standards Guidance, the estimates represented relative worse-case conditions. Risk associated with overall site conditions may be more appropriately estimated using a weighted-average to adjust for the sampling bias. The risk estimates presented below are based on the laboratory analytical data only; field-screening data was not used in the assessment.

The ecological risk assessment for the site was limited to direct comparison of laboratory analytical results to the URS, used as screening values. Based on the review of site characteristics, the primary ecological receptor at the site would be Round Pole Branch. Laboratory analytical results for the sediment samples collected from Round Pole Branch

indicated elevated background concentrations of metals, several PAH compounds, and pesticides (see Appendix 1-Table 10). Both upstream and downstream sediment samples contained elevated concentrations of metals, several PAH compounds, and pesticides with respect to the URS values. Therefore, the contaminants detected in the sediment samples cannot be attributed solely to the site, and no further assessment of ecological impacts was performed.

A human health risk assessment was conducted on site surface soils. Appendix 2-Tables 14A, 14B, and 15 provide a summary of the exposure point concentrations for OU-1 and OU-2. A total cumulative cancer risk of 1.0 X 10⁻⁵ was used to calculate site-specific standards for carcinogenic compounds. Chemicals of potential concern from the site include benzo(a)pyrene and dibenz(a,h)anthracene. A cumulative risk assessment results are presented in Appendix 2-Table 16, which show that the calculated cumulative cancer risk is equal to 1.0 X 10⁻⁵.

In accordance with DNREC guidance, estimates of human health risk consider complete exposure pathways for both current and likely future development scenarios. The primary current and future exposure pathway is direct contact with surface soils. Assuming redevelopment of the site performed in an uncontrolled manner, there is some potential that site construction would result in the creation of a future direct-contact exposure pathway for deeper soils. Ingestion of groundwater from the well on site is also a complete pathway; however, sample analysis results for the brewery well were below the EPA's MCLs.

Based on the partial future usage of the site for residential development, the baseline risk assessment for future conditions includes exposure to residential occupants. The potential COCs identified in the nonresidential areas are well removed from the residential areas. The calculated human health risk assessment based on the current conditions does not pose an unacceptable risk in the residential area. The assessment of future risk associated with residential direct-contact exposure is based on the character of those soils currently located in areas proposed for residential development. These include the wastewater treatment plant area and the southern portion of the site (residential areas). Should the development plans for the site change, the Department must be notified and the risk assessment revisited.

Risk estimates were calculated with the same equations used to calculate the URS values for residential and non-residential soil ingestion. Appendix 2-Tables 17A and 17B summarize cumulative cancer risk estimates for residential and non-residential areas, respectively. Appendix 2-Table 18A summarizes the hazard index calculations for the residential area, and Appendix 2-Table 18B summarizes the calculations for the non-residential area. These estimates are intended to represent potential future risks associated with the site assuming uncontrolled development without consideration of DNREC requirements, for OU-1 (residential) and OU-2 (nonresidential) areas. Current exposure would be limited primarily to construction workers and trespassers ingesting surface soils or excavating deeper soils. Such exposures were estimated to be short-term.

The majority of the risk estimates indicated acceptable levels. However, the cumulative carcinogenic risk estimate for OU-2 (nonresidential area) was 1.65 X 10⁻⁵, which exceeds the

limit of 1.0 X 10⁻⁵ required by the Remediation Standards Guidance. The cumulative carcinogenic risk estimate for residential areas was acceptable, at 9.57 X 10⁻⁶. Hazard index estimates were 0.45 for residential areas and 0.05 for OU-2 (nonresidential area), well below the Remediation Standards Guidance limit of 1.0. Based on these estimates, remedial action is warranted to address soil conditions and future use in OU-2 and (the nonresidential area).

4.0 REMEDIAL ACTION OBJECTIVES

According to Section 8.4 (1) of the Regulations, site-specific RAOs must be established for all plans of remedial action. The Regulations provide that DNREC set objectives for land use, resource use, and cleanup levels that are protective of human health and the environment. Qualitative objectives describe, in general terms, what the ultimate result of the remedial action, if necessary, should be. The following qualitative objectives are determined to be appropriate for the site:

- Control potential human exposure (i.e., future occupants of the residential and commercial areas, future visitors, and construction workers) to impacted soils and groundwater (i.e., dermal, inhalation and ingestion);
- Ensure that any remaining contaminant concentrations in soil are such that the associated risk levels will allow unrestricted use of OU-1 (residential area); and
- Control potential future migration of impacted soils to Round Pole Branch through stormwater runoff management.

These objectives are consistent with the current and proposed use of the site as a mixed-use residential and non-residential community, State regulations governing water supply, and worker health and safety.

Quantitative objectives define specific levels of remedial action to achieve protection of human health and the environment. Based on the qualitative objectives, the quantitative objectives will be to ensure that future site users, such as site workers, construction workers, visitors, and trespassers, do not come in contact with soils that contain elevated levels of contaminants including metals and PAHs above the established restricted use URS values.

Based on the qualitative objectives, the quantitative objectives are:

- 1. For OU-1 (residential use), prevent potential human exposure to soils that contain regulated substances/contaminants at concentrations greater than the URS values for unrestricted use.
- 2. For OU-2 (nonresidential use), prevent human exposure to soils and groundwater contaminated by VOCs, PAHs, metals, pesticides and PCBs that would result in a carcinogenic risk exceeding 1 X 10⁻⁵, a hazard index of 1.0, or to lead with concentrations exceeding 1,000 mg/kg.

- 3. For OU-2 (nonresidential use), prevent human exposure to soils and groundwater contaminated by regulated substances/contaminants that would result in a <u>cumulative risk</u> exceeding 1 X 10⁻⁵, or a hazard index of 1.0.
- 4. Prevent erosion of surface soils contaminated above DNREC URS values for protection of the environment into the Round Pole Branch.

Based on the risk assessment, the proposed project-specific quantitative RAOs (cleanup goals) for the nonresidential area are as follows:

OU – 1 (RESIDENTIAL SOILS)

Due to Cannery Village's desire for unrestricted use of the residential areas, soil RAOs for OU-1 (residential) will consist of the URS values for unrestricted use.

OU – 2 (NONRESIDENTIAL SOILS)

The RAOs for OU-2 soils (nonresidential) will consist of the following:

 dieldrin 	n	0.07 mg/kg
 aroclor 	1254	0.91 mg/kg
 aroclor 	1260	0.71 mg/kg
• benzo(a	a)ant <mark>h</mark> racene	7.89 mg/kg
benzo()	b)fluoranthene	3.05 mg/kg
• benzo(a	a)pyr <mark>e</mark> ne	3.75 mg/kg
• indeno	(1,2,3 <mark>-cd)pyrene</mark>	5.29 mg/kg
• dibenz((a,h)a <mark>nthracene</mark>	1.9 mg/kg
 benzen 	e	0.86 mg/kg

GROUNDWATER

The contaminants detected in the shallow groundwater samples were dieldrin, naphthalene, benzene and PCE. The RAOs for the shallow groundwater will consist of the EPA's MCLs for these compounds. The source of the contaminants in the shallow groundwater appears to be related to the former UST operations conducted at the site. No contamination was detected in the brewery supply well.

5.0 FINAL PLAN OF REMEDIAL ACTION

Based upon the information and results of the investigations performed at the Former Draper King Cole Vegetable Cannery site, DNREC has determined that the preferred remedy conveyed in the proposed plan is protective of human health, welfare and the environment, and shall be adopted as the final plan, and shall be implemented. The final plan for the Former Draper King

Cole Vegetable Cannery site consists of soil capping and management including excavation and placement of selected soils under a parking lot, a ground water monitoring program, and institutional controls. The final plan will include:

1. Development of a DNREC-approved Soil Management Plan (SMP) **prior to** redevelopment of both OU-1 and OU-2 which will outline the procedures for soil excavation, post-excavation confirmatory soil sampling, stockpiling and reuse of soil on site, or proper off site disposal, as applicable. Areas to be excavated include the wastewater treatment sludge in the former lined lagoon, the coarse-grained coal ash and petroleum-impacted soils identified near Building 26, and the stockpiled soils for waste disposal located near the southwestern corner of the former concrete slab. Provisions will be included in the SMP for reuse of the wastewater treatment sludge, which may be mixed with the coarse-grained coal ash during placement to improve the structural stability of the materials, or for proper disposal off-site.

The SMP will also include contingency provisions for OU-1 in the event that contaminants are encountered during the construction activities. This will ensure that any contaminants in soils are such that the associated risk levels will allow unrestricted use of OU-1, or will be below the applicable URS values for residential use. The SMP shall also include confirmatory soil sampling to be conducted on the OU-1 portion of the site following excavation.

The SMP will also incorporate remedial activities on OU-2 to achieve the RAOs for soil and ensure that any remaining contaminant concentrations in soils are such that the associated risk levels will allow restricted use of OU-2, or will be below the applicable URS values for nonresidential use. In addition, the SMP will also detail the containment or capping system for the contaminant-impacted areas in OU-2. The cap will be protective of human health, welfare and the environment and should consist of a combination of the bituminous concrete paving, concrete sidewalks, and, where warranted, placement of "clean" soil in unpaved areas to limit potential human contact with regulated substances. Proposed pavement areas will be underlain with a 9-inch gravel sub-base and covered by an approximate 3 to 5-inch pavement section. The proposed landscaped areas will be underlain with a "demarcation" geotextile and covered with a minimum of 1.5 feet of clean soil.

- 2. Placement of a deed restriction on the OU-2 portion of the site limiting OU-2 to restricted land use (nonresidential uses) and prohibiting any land disturbing activities (i.e., digging, trenching, drilling or excavation activities) on OU-2 without prior approval of DNREC.
- 3. Placement of a Groundwater Management Zone (GMZ) and associated deed restriction for OU-1 and OU-2 to prevent future use of the groundwater beneath the site without prior approval of DNREC.
- 4. Development of a DNREC-approved Groundwater Quality Monitoring Program (GQMP) and schedule within three months of the signed final plan of remedial action to include

the installation of sentinel monitoring wells downgradient of the area of identified groundwater contamination in the former UST area, to monitor any possible contaminant plume migration toward the brewery well and Round Pole Branch. The GQMP will also include provisions to address the free product identified in MW-1, and develop a semi-annual groundwater quality monitoring program for the OU-2 portion of the site for a minimum of three (3) years.

5. Development and implementation of an O&M Plan for the OU-2 portion of the site to insure future maintenance of the cap and cover system.

6.0 PUBLIC PARTICIPATION

The Department actively solicited public comments or suggestions on the proposed plan and welcomed opportunities to answer questions. The public comment period for the proposed plan began on February 12, 2003, and concluded on March 3, 2003. No written comments or requests for a public hearing were received by DNREC.

7.0 **DECLARATION**

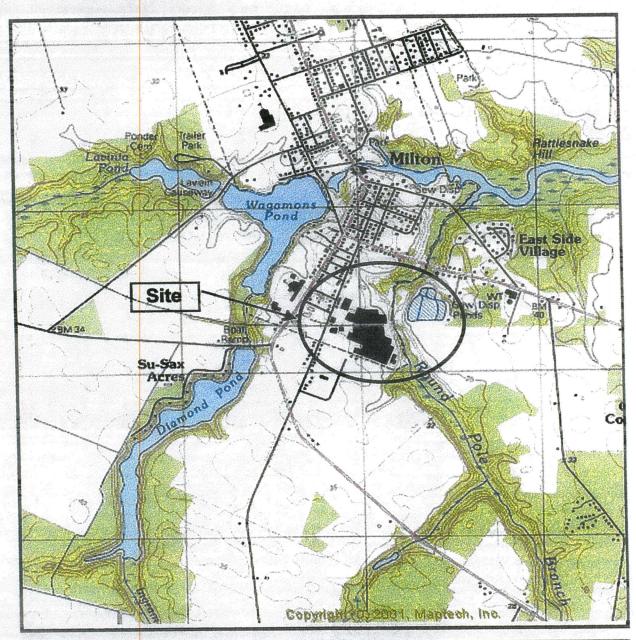
This Final Plan of Remedial Action for the Former Draper King Cole Vegetable Cannery is protective of human health, welfare and the environment and is consistent with the requirements of the Delaware Hazardous Substance Cleanup Act.

John Blevins

Director, Division of Air and Waste Management

LJJ:dw Revised:slb LJJ03017.doc DE 1252 II B 8 3 /14/03 Date

Figure 1: SITE LOCATION MAP



NOTE:

THIS LOCATION SKETCH WAS ADOPTED FROM THE USGS TOPOGRAPHIC MAP, 7.5 -MINUTE SERIES, FOR MILTON, DELAWARE - SUSSEX CO.(1992)



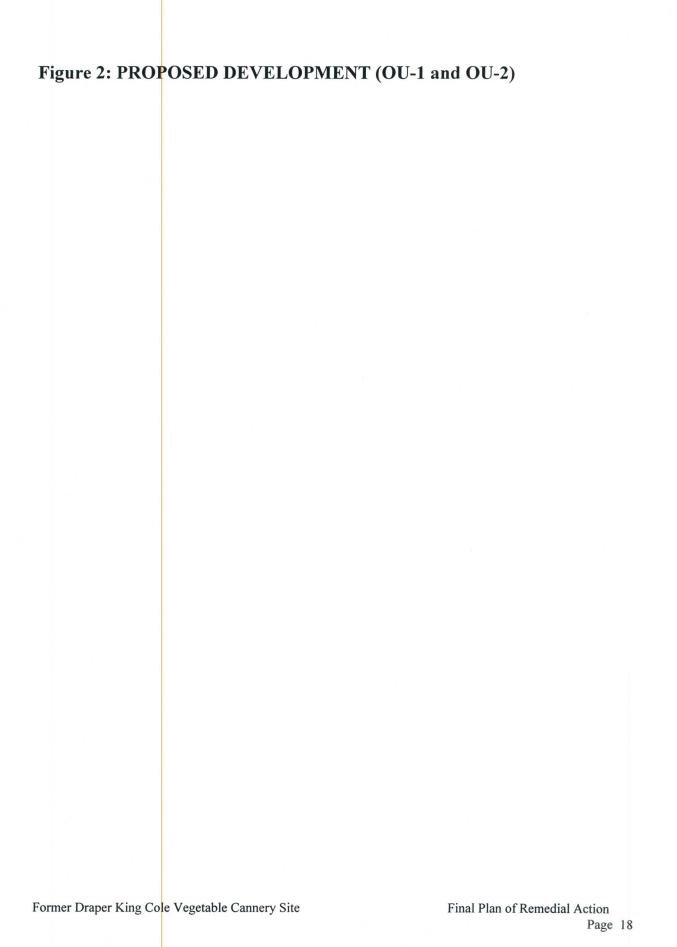
Ten Bears Environmental, L.L.C.
501 Capitol Trail, Sulte 200
Newark, DE 19711
Phone: (302) 731-8633 Fex (302) 731-8655

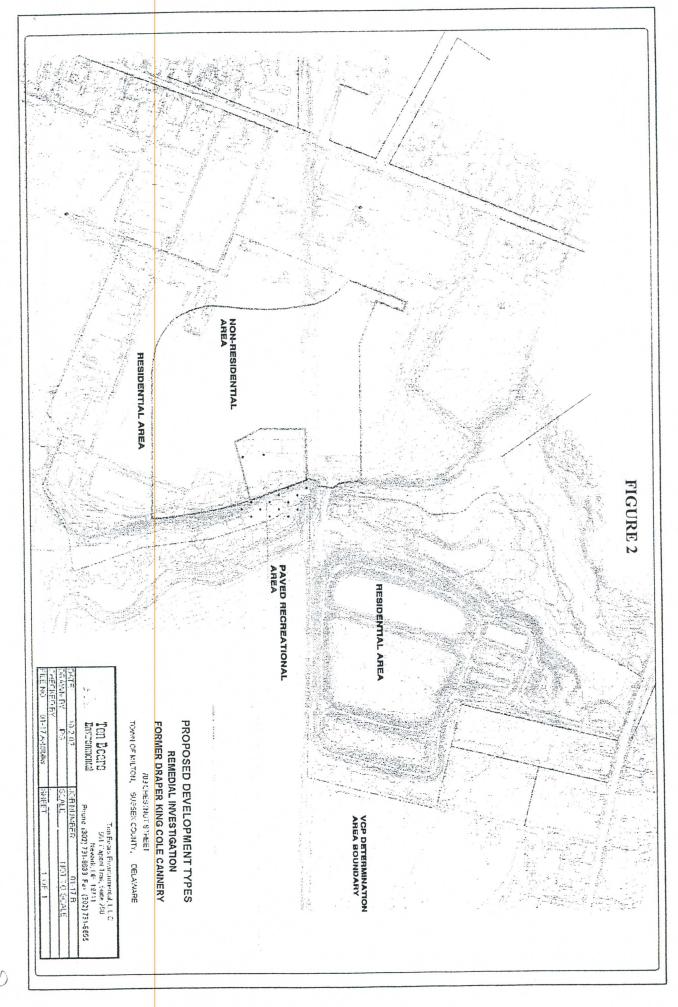
FIGURE 1 - AREA SKETCH REMEDIAL INVESTIGATION FORMER DRAPER KING COLE CANNERY

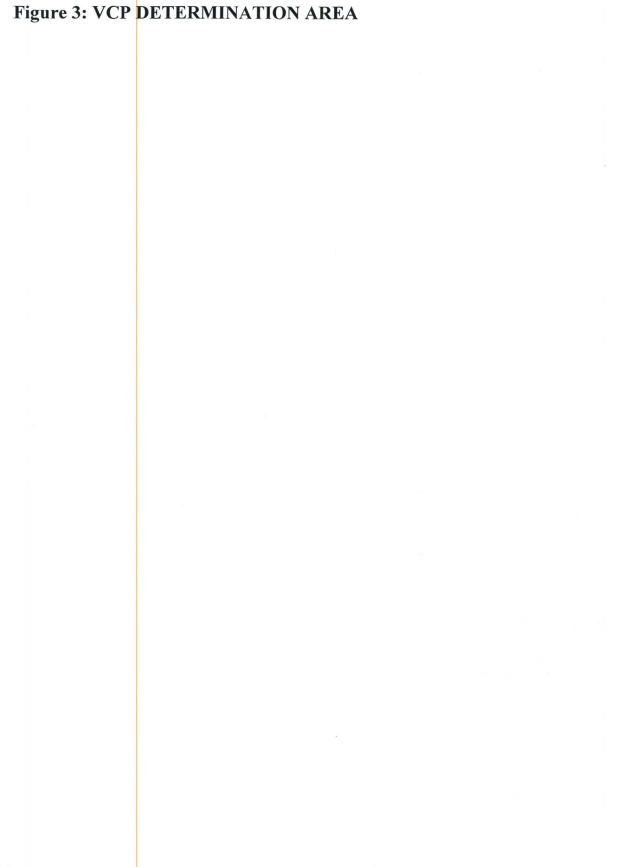
703 CHESTNUT STREET

TOWN OF MILTON, SUSSEX COUNTY, DELAWARE

DATE: 01-09-02	JOB NUMBER:	01-17.A
DRAWN BY: JPG	SCALE:	NOT TO SCALE
CHECKED BY:	FIGURE NO:	
FILE NO: TB-01-17.A-1	SHEET 1 OF 1	







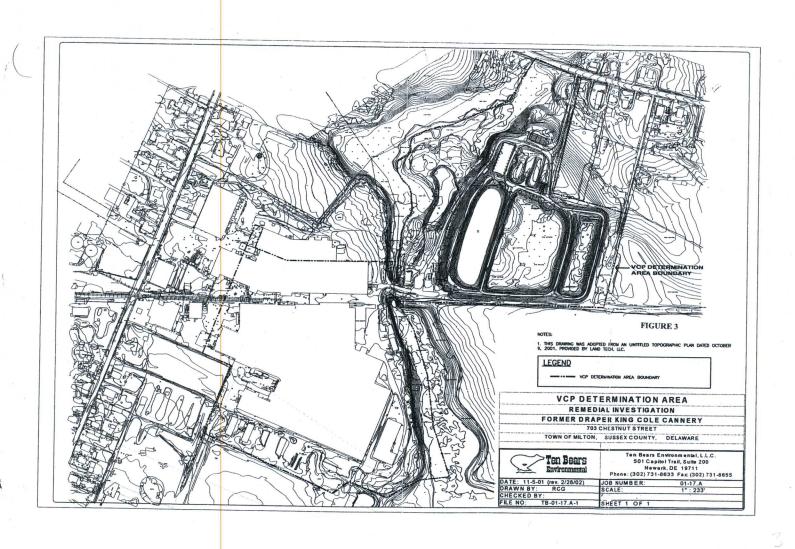


Figure 4: HISTORIC SITE PLAN

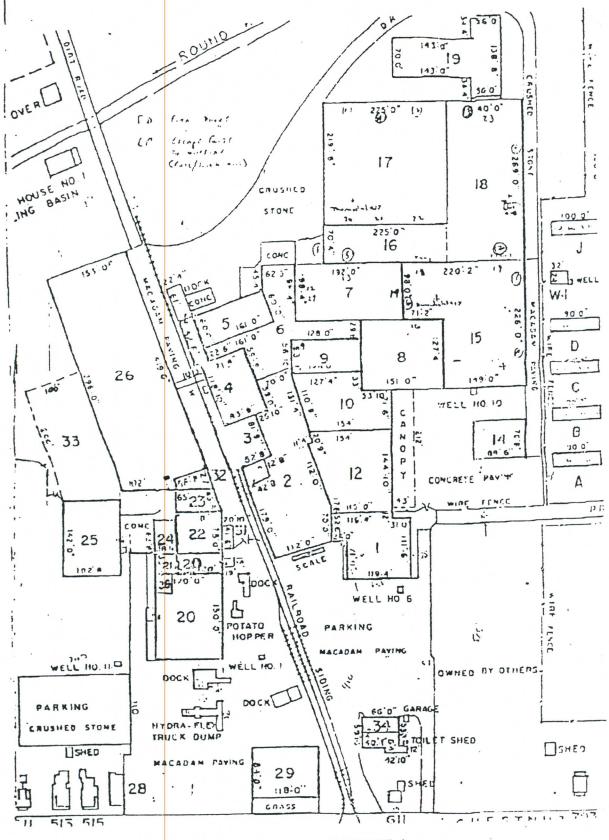
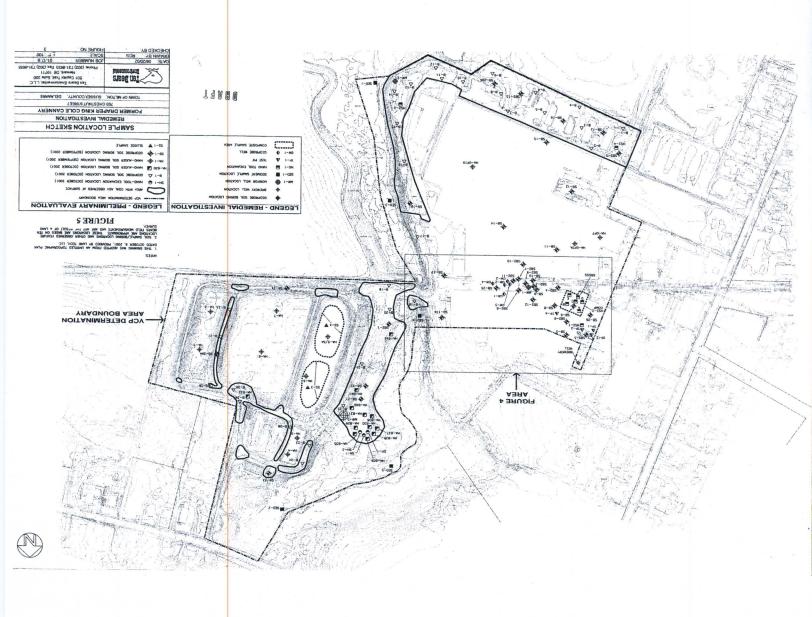


FIGURE 4 HISTORIC SITE PLAN

HILL PIL SITE FLAT





Appendix 1: SUMMARY OF SITE DATA (TABLES 1-13)

SUMMARY OF OBSERVED COAL ASH THICKNESSES

FORMER DRAPER KING COLE VEGETABLE CANNERY SITE MILTON, DELAWARE

LOCATION	THICKNESS (FT.)	L	OCATION	THICKNESS (FT.)
PRELIMINARY	' EVAL <mark>U</mark> ATION		B-6	0.3
SB-1	0.7		B-7	0.2
SB-2	0		B-8	0.3
SB-3	0		B-9	0.6
SB-4	0.5		B-10	0.2
SB-5	0		B-11	0.05
SB-6	5.0		B-12	2
HA-GP-7	1.0*		B-13	1.5
HA-GP-7A	0.9		B-14	2****
SB-8	0		B-15	0.1 / 1.4-2.4**
SB-9	Ö		B-16	0.6
SB-10	1.7		B-17	0.1
SB-10	0		B-18	1
SB-12	0		B-19	1.5
			B-19 B-20	0.8
SB-13	0.3 / 2.7-2.8**		B-20 B-21	0.8
SB-14	0			0.8
SB-15	0		B-22	
SB-16	0.5		B-23	1.2
SB-17	? (no recovery)		B-24	2.4
SB-17A	0.2		B-25	4
SB-17A	0.2		B-26	0.4
SB-18	1.0		B-27	0.2
HA-GP-19	0.0		B-28	0.4
SB-20A	0.5		HA-B32	0.5
SB-21	1.2		B-33	0.05
SB-22	1.0+***		B-34	0.4
SB-22A	1.0+****		HA-B42	2.3
SB-23	0.5		HA-B31	0.8
SB-24	0		HA-B29	2.3
SB-24A	0.5		HA-B30	1.5****
SB-25	0		HA-B36	3.5****
SB-26	0		HA-B37	3.5
HA-1	0		HA-B38	3.5
HA-2	0		HA-B39	3.5
HA-3	0		HA-B40	0.3
HA-4	0		HA-B41	1
HA-5	0		SH-1	3.5
HA-5A	0		SH-2	3.5
HA-6	0		SH-3	3.5
HA-7	0	RE	MEDIAL IN	VESTIGATION
HA-8	0		SB2-1	0.7 / 0.4-1.1
B-1	0		SB2-4	2
			SB2-7	2
B-2 B-3	0.2		HS2-2	3
			HS2-3	?
B-4	1.2		HS2-4	0.2
B-5	0.5		1102-4	J.L

^{*} No coal ash, but solid waste debris observed.

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

^{**} Two layers of slag observed: at the surface and deeper, separated by soils.

^{***} Trace quantities observed. Anticipate this material remaining in place.

^{****} Encountered refusal. Possibility of additional ash / slag beneath.

(UNRESTRICTED USE)

SUMMARY OF XRF FIELD SCREENING RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

					kg mg/kg			<240 <330	<330 <470	QN	7,676 16,800	ND <46	ND <1800	<22 ND	<170 <230	104
		9/4/01 9/4/01	Soil	Grab Grab	mg/kg mg/kg		QN	QN	<350	76>	8,130	<43	<1300	QN	<180	63
SB-23	0.0.5	9/4/01	Soil	Grab	mg/kg		QN	QN .	<390	66>	10,900	57.5	<1400	<22	<200	13.
SB-24A	3.0-4.0	9/4/01	Soil	Grab	mg/kg		<31	QN	<380	QN	9,340	<44	<1400	<22	<200	00,
SB-24A	2.0-3.0	9/4/01	Soil	Grab	mg/kg		QN	<290	<410	<100	12,300	47.9	<1500	GN.	<200	
SB-24A	1.0-2.0	9/4/01	Soil	Grab	mg/kg		QN	QN	<410	QN	11,100	45	<1400	<23	<200	
SB-24A	0.5-1.0	9/4/01	Soil	Grab	mg/kg		QN	<290	<390	GN	10,500	<47	<1400	QN	<200	
SB-24A	0-0.5	9/4/01	Soil	Grab	mg/kg		<35	<390	742	<110	26	65.1	<2100	QN	QN	
HA-1	2.0-3.5	9/4/01	Soil	Grab	mq/kq		<31	<240	<330	<95	7.460	<44	CN	GN	CN	
HA-1	0 5-1 0	9/4/01	Soil	Grah	ma/ka		CN	GN	<360	200	9 290	<40	<1300	CN	<180	-
HA-1	0 7.1 5	0/4/01	Soil	Grah	morka	*	CN	GN ,	0267	OIN	3 970	2,542	0907	500	<170	
F	T	T	NC	DIT.	٧ſ	לרו ד	^^	3 , T	R	AI	4IN	רוו	BE	d	T	7
ociteofitable ociteor	Comple Dooth (feet)	ample Deput (teet)	Matrix	Comple Time	loite	METALS		Viseliic	nromum	Copail	obber	ron	eau	vanganese	Mercury	VICKEI

HA-5	0-0.5	9/4/01	Soil	Grab	mg/kg		QN	ON	340	QN	6,586	<41	QN	<22	QN	<56
HA-5	1.5-1.7	9/4/01	Soil	Grab	mg/kg		<31	QN	ON	ON	11,100	<43	ON	ON	QN	<57
SB-24	0-1.5	9/4/01	Soil	Grab	mg/kg		QN	<230	QN	QN	6,510	<42	GN	GN	QN	289
SB-23	12.0-15.0	9/4/01	Soil	Grab	mg/kg		QN	<210	378	QN	4,580	<43	GN	QN	QN	<49
SB-24A	18.0-20.0	9/4/01	Soil	Grab	mg/kg		<29	<210	<290	<89>	5,440	<40	QN	<22	QN	<49
SB-24A	16.0-18.0	9/4/01	Soil	Grab	mg/kg		QN	<180	340	98>	3,020	<39	098>	GN	<150	<47
SB-24A	14.0-16.0	9/4/01	Soil	Grab	mg/kg		QV	<230	<320	QN	7,170	43.6	<1200	QN	<170	54.8
SB-24A	12.0-14.0	9/4/01	Soil	Grab	mg/kg		QN	QN	321	<91	4,160	<41	<980	<22	<170	CN
SB-24A	10.0-12.0	9/4/01	Soil	Grab	mg/kg		QN	<300	<920	<97	13,600	<44	QN	23	GN	<54
SB-24A	8.0-10.0	9/4/01	Soil	Grab	mg/kg		QN	<350	<500	<110	18.400	<46	<1800	QN	QN	77.9
SB-24A	6.0-8.0	9/4/01	Soil	Grab	mg/kg		<31	QN	348	CN	6 480	<43	<1200	GN	<180	600
SB-24A	4 0-6 0	9/4/01	Soil	Grab	mg/kg		<31	CN	506	CN	11 700	<45	<1500	<23	QN	766
	_	_	NC	JIT.	ΑU	78	'ΛΞ	, E	יצי	AV	IIW	רו	RE	d	_	_
I ocation Identification	Sample Deoth (feet)	Sample Date (mo/d/w)	Matrix	Samole Type	Units	METALS	Arsenic	Chromina	Cobalt	Touch Control	Lon	peo I	Managaga	Marciny	Nickel	31:-1

							QN	<200	ON	QN	5,030	43.3	QN	QN	GN	<45
HA-1	6.0-6.5	9/5/01	Soil	Grab	mg/kg			>			5,	4				
HA-7	9.5-10.0	9/5/01	Soil	Grab	mg/kg		QN	<180	QN	GN	4,640	<34	QN .	¢<18	QN	<45
		١	10	IT/	/ N	74	ΛΞ	٨	AR	'NI	MI	73	B	4		
ocation Identification	Sample Depth (feet)	Sampling Date (mo/d/yr)	Matrix	Sample Type	Units	METALS	Arsenic	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Zinc

SED-2	Surface	6/17/02	Soil	Grab	mg/kg	QN	QN	QN	QN	19,891.2	37.3	QN	ON	QN	196
SED-1	Surface	6/17/02	Soil	Grab	mg/kg	QN	ON	QN	ON	11,296	40.4	ON	ON	ON	349.2
SB 2-13	11-11.3	6/21/02	Soil	Grab	mg/kg	GN	GN	CN	QN	1,540	GN	GN	GN	21,491.2	QN
SB 2-13	1-2	6/21/02	Soil	Grab	mg/kg	QN	QN	QN	QN	6,560	GN	QN	QN	11,200	QN
MW-3	4.8-5.2	6/17/02	Soil	Grab	mg/kg	QN	386.8	QN	QN	13,094.4	GN	QN	QN	QN	GN
MW-3	0.7-1.1	6/17/02	Soil	Grab	mg/kg	QN	QN	QN	GN	11,795.2	GN	GN	GN	QN	69 5
MW-2	14-16	6/17/02	Soil	Grab	mg/kg	GN	QN	QN	QN	15,795.2	QN	GN	GN	GN	QN
MW-2	0-3	6/17/02	Soil	Grab	mg/kg	QN	9.709	GN	QN	23,193.6	247	QN	QN	317.4	632.8
MW-1	24-26	6/17/02	Soil	Grab	mg/kg	GN	QN	GN	GN	7.014.4	QN	QN	QN	QN	GN

(UNRESTRICTED USE)

SUMMARY OF XRF FIELD SCREENING RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

SB-13	0-0.3	9/5/01	Coil	2001	Grab	mg/kg		30.	<35	<470	737		QN	32 900	25,300	<51	QN	-	ON	QN	1586	2.22
SB-16	0.5-1.8	9/5/01	Coil	2011	Grab	mg/kg		00	<32	<260	Civ	GE.	QN	8 130	000	45.8	QN	0.	ON	QN	77.0	0.1
SB-16	0-0.5	9/5/01	Coil	Soil	Grab	mg/kg		0	QN		1000	1050		007 76	004.13	60 4					160	103
SS-1	N/A	9/4/01	01.12	Studge	Composite	mg/kg			QN	243	2	CN	CN	0000	0,920	<40	QN		QN	QN	105	11111
HA-3	0.5-1.0	9/4/01		Soil	Grab	mg/kg			QN	<210	2	ON	QN	040	2,040	C41	CZ		<22	QN	,E1	
SS-4	N/A	9/4/01		Sludge	Composite	mq/kq			<27	<260		455	152	000	006,11	41.1	CN	2	QN	QN	040	1,775
SS-3	N/A	0/4/04	04.0	Sludge	Composite	ma/ka	X		ON	02.6>	0	QN	257		15,200	56.8	ON	GN.	QN	CN	000	77.7
HA-2	03-15	0/4/04	0/4/0	Soil	Grab	ma/ka	*		QN	0102	217	QN	CZ		000'9	c41	02	ON	<20	CN		
SB-23	80.110	2000	3/4/01	Soil	Grab	mo/ka			CN	CN	CINI	GN	ON		3,350	c41	107	17>	GN	GN		030
SB-23	0 8 0 8	0.0-0.0	9/4/01	Soil	Grah	no/ka			CN		ON.	CN	02	CM	5,470	CN		ON.	CN	OW	2	
SB.23	0307	4.0-0.0	9/4/01	Soil	Grah	malka	Sussin		CN		ON.	<410	0017	2001	13.100	7.13	CF	<1500	<222	777	2200	
CB 23	20.40	3.0-4.0	9/4/01	Soil	465	CO CO	the state of the s		Ol4	GN GGG	<300	2440	044	<100	14 700	67.	743	<1700	4.3	24	017>	
	_	_	١	NC	LIC	A	1	14	11	E	٨	R	۷	NI	W	רו	3	Я	d	_	_	
Control of the contro	Location identification	Sample Depth (feet)	Sampling Date (mo/d/yr)	Matrix	Mallix	Sample Type	Units	METALS		Arsenic	Chromium	0-1-1	Coball	Copper		lion	Lead	Mannapaga	Nangario Con	Mercury	Nickel	

HA-7	2.5-3.0	9/5/01	Soil	Grab	-0.00	mg/kg		<28	<210	GN	GN	6,460	<39	QN	QN	QN	-
HA-7	0-1.0	9/5/01	Soil	Grah		тд/кд		QN	<290	CN	GN	18,500	60.4	QN	QN	20	
SB-13	0.3-4.0	9/5/01	Soil	Grah	Carlo	mg/kg		QN	<440	GN	GN	25,100	58.5	QN	<22	QN	
SB-20A	0.5-3.5	9/5/01	Soil	Grah	and the second	mg/kg		QN	<320	929	CN	14,300	QN	QN	<24	QN	
SB-20A	0-0.5	9/5/01	Soil	Grah	CBIO	mg/kg		QN	<270	GN	GN	11,200	<45	QN	QN	QN	
HA-3	4.5-5.0	9/4/01	Soil	Grah	Gian	mg/kg		QN	<200	281	GN	3.600	<41	GN	<20	QN	
HA-3	15.25	9/4/01	Soil	100	Grab	mg/kg		QN	<200	320	CN	4 180	<38	QN	<21	QN	
HA-3	05.15	9/4/01	Soil	100	Grab	mg/kg		QN	<180	315	GN	3 080	<38	QN	<20	QV	
HA-4	50.55	0000	Soil	100	Grab	mg/kg		CN	CN	353	CN	4 350	<39	CN	<20	QN	-
HA-4	0 5 4 0	0,4104	9/4/01	2001	Grab	mg/kg		<28 8 2	0262	CN	- CN	6,600	CN	CN	CN	GN	
HA.2	200	0-0.3	9/4/01	2011	Grab	mg/kg		CN	2300	2005	CIV	15 000	2,300	CN CN		S S	
NA 6	C-WL	0.1-0.1	9/4/01	Soil	Grab	mg/kg		ON	0367	007		027.0	0,120	CIV	CNO		
	<u> </u>		N	01.	1,	√n	יר	√∧	3.	RY	AI	VIN	רוו	SE	ld	_	
Confidence of the parties of the par	ocation Identification	Sample Depth (feet)	Sampling Date (mo/d/yr)	Matrix	Sample Type	Units	METALS		Arsenic	Chromium	Coball	Copper	ron	Lead	Manganese	Mercury	CKE

ocation Identification		SED-3 °	SED-4	SED-5	NUMBER OF	MOT	НІВН	AVERAGE
Sample Depth (feet)		Surface	Surface	Surface	SAMPLES	DETECTION	DETECTION	PO-
Sampling Date (mo/d/yr)	1	6/17/02	6/17/02	6/17/02	ABOVE			DETECTIONS
Matrix	10	Soil	Soil	Soil	QUANTITATION			
Sample Type	IT,	Grab	Grab	Grab	LIMIT			
Juits	۸U	mg/kg	mg/kg	mg/kg				
METALS	76							
Arsonic	/Λ:	GN	QN	GN	0	GN	QN	QN
Chromina	3 /	GN	GN	QN	3	243.0	809	412
Carolingin	R	S	CN	GN	16	281.0	1020	476
Coball	AI			CIN	0	152.0	257	205
Copper	VI	ON	GN IND	Q.	7	0.50	107	0000
Iron	W	9,164.8	14,195.2	16,896	62	25.7	32900	10323
Lead	וח:	QN	GN	53.1	16	37.3	247	63
Manganese	В	QN	GN	GN	0	QN	GN	QN
Mercino	d	QN	QN	QN	2	23.0	43	33
Nickel	_	QN .	QN	QN	4	20.0	21491	8257
Zioc	_	149 6	623	2412	27	25.9	633	158

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Rufer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

(RESTRICTED USE)

SUMMARY OF XRF FIELD SCREENING RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

Type Fig. Circle Grab Grab	Type Ciab	Type	Type	Type	Figure F	Type	Location Identification Sample Depth (feet) Sampling Date (mo/d/yr) Matrix	TIT	HA-1 0.7-1.5 9/4/01 Soil	HA-1 0.5-1.0 9/4/01 Soil	HA-1 2.0-3.5 9/4/01 Soil	SB-24A 0-0.5 9/4/01 Soil	SB-24A 0.5-1.0 9/4/01 Soil		SB-24A 1.0-2.0 9/4/01 Soil	58-24A SB-24A 1.0.2.0 2.0-3.0 9/4/01 9/4/01 Soil Soil		SB-24A 2.0-3.0 9/4/01 Soil	2.0-3.0 30-4.0 504/01 5/4/01 5/4/01 5/4/01	SB-24A SB-24A SB-23 2.0-3.0 30-4.0 0-0.5 9/4/01 9/4/01 9/4/01 Soil Soil	SB-24A SB-24A SB-23 SB-23 SB-23 SB-24 SB-24 SB-23 SB-23 SB-24 SB-24 SB-23 SB-23 SB-24 SB-2
Name	Colored Colo	The color of the	Name	The color of the	The color of the	The color of the	Matrix Sample Tune	OIT	Soil	Soil	Soil	Soil	Soil	Soil	= =		Soil	Soil Soil	Soil Soil Soil	Soil Soil Soil Soil	Soil Soil Soil
S	S	S	S	S	Column C	Columbication Columbicatio	Units	AU-	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg	ng/kg mg/kg	mg/kg mg/kg mg/kg	mg/kg mg/kg mg/kg
The color of the	Type Fig.	Table Tabl	Type	Table Tabl	The color of the	The color of the	METALS	AV:	ON.		<31	<35	CN	-	CZ	ON ON		CN	ON ES ON	I GN I GN	ON ES ON
Fig.	Column C	Color Colo	Color Colo	Color Colo	Column C	Respecies Color	Chromium	I K	0		<240	<390	<290		2	<290	<290	ND ND	ON ON ON ON	ON ON ON ON ON	ON ON ON ON OS>
Color Colo	Second	SB 24A S	Secondary Seco	Secondary Seco	Second Color Seco	See	balt	AAN	<270		<330	742	<390	<410 MD	+	<410		<410 <380	<410 <380	<410 <380 <390 <350 <400 <np <400<="" p=""></np>	<410 <380 <390 <350 <400 <np <400<="" p=""></np>
Compare	Color Colo	Columbication Columbicatio	Columbia Columbia	Column	Column C	Columbic Columbic	Copper	IIMI	3,970		7,460	26	10,500			12,300	9,340	9,340 10	9,340 10,900 8	9,340 10,900 8,130	9,340 10,900 8,130 7,676
The color The	The color of the	Table Tabl	Name	Table Tabl	Table Tabl	Colored Colo	pe	SEL	<42	<40	c44	65.1	<47	45	1	47.9		×44	<44 57.5	<44 57.5	<44 57.5 <43
Comparison Com	Color Colo	Color Colo	Color Colo	Table Tabl	Color Colo	Color Colo	nganese	bb	<960	<1300 ND	QN QN	<2100 ND		<1400		<1500 ND		QN	<1400 <1400 <122 <22 <22 <22	<1400 <1400 <1300 <100 <100 ND <22 ND	<1400 <1400 <122 <22 <22 <22
Control Cont	SB-24A SB-24B SB-24A SB-24B S	SB-24A S	Secondaria	SB-24A SB-24A SB-24A SB-24A SB-23A SB-23A SB-23A SB-24A SB-24B Solid Soli	Type Fig. 12 Fig. 14 Fig. 15 Fig. 15	Second Color Seco	kel	ТТ	<170		QN CS	ND ND	<200	<200		<200	1 2	<200	<200 <200 <200 <200 <2180 <150	<200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <20	<200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <20
Sec. 24A Sec. 24A	Color Colo	Color Colo	SB-24A SB-24B Sold	SB-24A SB-24B Soil So	SB-24A S	SB-24A S	0	-	<51	<54	452	102	64.4	81.6		ON I			152	152 <54 <52	152 <54
Type	Type	Type	Type	Type	Type	Type	ition Identification	H	SB-24A	SB-24A	SB-24A	SB-24A	SB-23	SB-24	I	HA-5		HA-5	HA-5 HA-5	HA-5 HA-5 SB-14	HA-5 HA-5 SB-14
Type	Type	Type Cash Soil	Type	Type	Type Cich	Type	nple Depth (feet)	1	12.0-14.0	14.0-16.0	16.0-18.0	18.0-20.0	12.0-15.0	0-1.5	1.5	1.5-1.7		0-0.5	0-0.5 1.0-1.5	0-0.5 1.0-1.5 0-2.0	0.0.5 1.0-1.5 0.2.0
Type Cambo Grab	Type Can Can Can Can Can Can Can Can	Type Cab Grab G	Type Cab Cab	Type Cab Cab	Type Circle Cir	Type Circle Cir	ipling Date (mo/d/	-	9/4/01	Soil Soil	Soil	Soil	9/4/01 Soil	Soil	9/4	LOV	9/4/01	1	9/4/01	9/4/01 9/4/01 9/4/01	9/4/01 9/4/01 9/4/01 Soil Coil
Second Fig.	Second Fig.	S	Second Part	Second Part	Second Color Seco	Second Color Seco	Type	L	Grab	Grab	Grab	Grab	Grab	Grab	Gra	a qu		Soll	Scale Scale	Scab Grab	Grap Grap Grap
No. No.	No.	S	The color of the	The color of the	The control of the	The color of the		AUJ	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg	/kg		mg/kg	mg/kg mg/kg	mg/kg mg/kg mg/kg	mg/kg mg/kg mg/kg
The control of the	The color of the	The color of the	The color of the	The color of the	The color of the	The color of the	La	AV:	2		CN	629	ON	CN		<31	- NO		GN	ON N	GN
The control of the	The color of the	The color of the	The color of the	See	See	See	nium	I A	Z	<230		<210	<210			CN	GN	0965 ON ON	09C> 09C> 0N	09C> 09C> 0N	0005
Second Process Seco	Second Process Seco	Second Process Seco	Second Process Seco	See	Second Part	Second	it.	/AA	321	<320	340	<290	378			QN	340	340	340 ND	340 ND ND	340 ND ND
2	2	2	2	2	Columbia Columbia	2)er	NII	<91	QN	98>	<89>	GN	GN		QN	QN	GN GN	QN QN	DN DN DN DN	DN DN DN DN
Compare Comp	Columbia	Columb C	Color Colo	Columbia Columbia	Column C	Columbia Columbia		T	4,150	7,170	3,020	5,440	4,580	6,510		11,100	11,100 6,586		6,586	6,586 8,720 8,410	6,586 8,720
Comparison Com	Comparison Com	Columbia Columbia	Color Colo	Color Colo	Color Colo	Color Colo	Janese	186	<980	<1200	<860	QN	QN				QN	QN QN	QN QN QN	QN QN QN	QN QN QN
SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-1 SB 2-1 SB 2-3 SB 2-3 SB 2-1 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-3 SB 2-3 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-4 SB 2-5 SB 2-3 SB 2-3 SB 2-5 SB 2-5 SB 2-3 SB 2-3 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2-5 SB 2	SB 2-1 SB 2-1 SB 2-2 SB 2-3 Soil	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 S 2 2 1 SB 2-1 SB 2-1 SB 2-3 SB 2-3 S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-1 SB 2-1 SB 2-3 SB 2-3 Soli Soli Soli Soli Soli Soli Soli Grab Grab Grab Grab Grab Grab MD	SB2-1 SB2-1 SB2-2 SB2-3 SB2-3 SB2-3 SB2-1 SB2-1 SB2-2 SB2-3 SB2-3 SB2-1 SB2-1 SB2-2 SB2-3 SB2-3 SB2-1 SB2-1 SB2-2 SB2-3 SB2-3 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0-0.5 14.15 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0-0.5 14.15 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0-0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0-0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0-0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.17/0.2 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-1.0 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.2-1.0 13.3-1.0 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 O4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5	SB 2-1 SB 2-2 SB 2-2 SB 2-3 S	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 O 4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 14-15 O 4-1,1 10.0-10.3 0.2-1.0 0.2-1.0 0.0.5 14-15 O 4-1,1 10.0-10.3 0.2-1.0 0.2-1.0 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.2-1.0 0.2-1.0 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.2-1.0 0.0.5 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.2-1.0 0.2-1.0 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.2-1.0 0.2-1.0 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.2-1.0 0.0.5 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 4-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 5-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 5-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 5-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 6-1,1 10.0-10.3 0.0.5 0.0.5 0.0.5 0.0.5 O 6-1,1 10.0-10.3 0.0.5 0.0.5 O 6-1,1 10.0-10.3 0.0.5 0.0.5 O	cury	d 	<22		QN	<22	QN	QN :		QN	<22	<22	<22 ND <22	<22 ND <22	<22 ND <22
SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-3 SB 2-3 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-4 SB 2-3 SB 2-3 SB 2-7 SB 2-7 SB 2-3 SB 2-7 SB 2-7 SB 2-3 SB 2-7 SB 2-7 SB 2-7 SB 2-7	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-3	SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-1 SB 2-3 SB 2-3 CA 4-1, 1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 14.15 CA 50il Soil Soil	SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 SB 2-1 SB 2-1 SB 2-2 SB 2-3 SB 2-3 SB 2-3 O4-1-1 100-10-3 02-1-0 13-3-13.6 0-0.5 14-15.6 O5	SB 2-1 SB 2-1 SB 2-2 SB 2-3 S	(e)	Т			<150	GN	GN	QN		Q	QN	QN	QN QN QN	QN QN QN	QN QN QN
SB 2-1 SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 0 4-1,1 10.0-103 0.2-1.0 13.3-13.6 0.0.5 14-15 6 17702 6/1702 6/1702 6/1702 6/1702 5 Soil Soil Soil Soil Grab Grab Grab Grab	SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 0.4-1.1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 14-15 0.4-1.1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 14-15 0.4-1.1 5oil 6/17/02 6/17/02 6/17/02 6/17/02 0.0-1.2 5oil Soil Soil Soil Soil 0.0-1.2 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 0.0-1.2 5oil Soil Soil Soil Soil Soil 0.0-1.2 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 0.0-1.2 5oil Soil Soil Soil Soil Grab 0.0-1.2 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 0.0-1.2 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 0.0-1.2 6/17/02 6/17/02 <td< td=""><td> SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 C</td><td> SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 S</td><td> SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 C</td><td> SB 2-1 SB 2-1 SB 2-2 SB 2-3 S</td><td> SB 2-1 SB 2-1 SB 2-2 SB 2-3 S</td><td></td><td>+</td><td>N</td><td></td><td><47</td><td><49</td><td><49</td><td>289</td><td></td><td><57</td><td><57 <56</td><td></td><td>> 26</td><td><56 <53 <55</td><td><56 <53</td></td<>	SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 C	SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 S	SB 2-1 SB 2-1 SB 2-2 SB 2-2 SB 2-3 SB 2-3 C	SB 2-1 SB 2-1 SB 2-2 SB 2-3 S	SB 2-1 SB 2-1 SB 2-2 SB 2-3 S		+	N		<47	<49	<49	289		<57	<57 <56		> 26	<56 <53 <55	<56 <53
Company Comp	Activation 6.4-1,1 10.0-10.3 0.2-1.0 13.3-13.6 0.0.5 14-15 Activation 6.17/02 6.17/02 6.17/02 6.17/02 6.17/02 Activation Soil Soil Soil Soil Soil Activation Grab Grab Grab Grab Grab Activation mg/kg mg/kg mg/kg mg/kg	Control Cont	Control Cont	Columbia Columbia	Carlo Carl	Carab	n Identification	-	SB 2-1	SB 2-1	SB 2-2	SB 2-2	SB 2-3	SB 2-3	SBS	4-4	38 2-4 SB 2-4	-	SB 2-4	SB 2-4 SB 2-5	SB 2-5 SB 2-5 SB 2-5
Company Comp	A Soil 6/17/02 <th< td=""><td> Soil Soil </td><td> A</td><td> A</td><td> Soil Soil </td><td> Control Cont</td><td>ple Depth (feet)</td><td></td><td>0.4-1.1</td><td>10.0-10.3</td><td>0.2-1.0</td><td>13.3-13.6</td><td>0-0.5</td><td>14-15</td><td>0-2</td><td></td><td></td><td>14-14.9</td><td>14-14.9 0.6-1.4 1</td><td>14-14.9 0.6-1.4 14.9-15.7</td><td>14-14.9 0.6-1.4 14.9-15.7</td></th<>	Soil	A	A	Soil	Control Cont	ple Depth (feet)		0.4-1.1	10.0-10.3	0.2-1.0	13.3-13.6	0-0.5	14-15	0-2			14-14.9	14-14.9 0.6-1.4 1	14-14.9 0.6-1.4 14.9-15.7	14-14.9 0.6-1.4 14.9-15.7
	Soil	Soil	Soil	Soil	Soil	Soil Soil Soil Soil Soil Soil Soil Soil	pling Date (mo/d/)		6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17	/02	9	6/17/02	6/17/02 6/17/02	6/17/02 6/17/02	6/17/02 6/17/02 6/17/02
T Grab Grab Grab Grab Grab Grab	4 Grab Grab Grab Grab Grab Grab 6 mg/kg mg/kg mg/kg mg/kg	Crab Grab	Crab Grab	Crab Grab	Carab Grab	Carab Grab	ix	101	Soil	Soil	Soil	Soil	Soil	Soil	Š	lio.		Soil	Soil Soil	Soil Soil	Soil Soil
0/0W 0/0W 0/0W	LS T mg/kg mg/kg mg/kg mg/kg mg/kg LS T T T T T T T T T T T T T T T T T T	S F ND	S	C	S	S	nple Type	TA	Grab	Grab	Grab	Grab	Grab	Grab	Gra	q	b Grab		Grab	Grab Grab	Grab Grab Grab
M	NO	ND	ND	27,084.8 20,595.2 9,568 14,400 8,588.8 8,128 ND			nganese	R	2		ON CA	ON ON	N N	NO NO		QN Z	QN QN		ON ON	ON ON	ON ON
March Marc	March Marc	The second land land land land land land land la	A	1	ON O	ON ON ON ON ON ON	el	Г	Z		QN	QN	QN	QN		QN		ND 180.5	UN 180.5	ND 180.5	ON 180.5
March Marc	March Marc	The color of the	C C C C C C C C C C	Note	NO N	ND N	Zioc	Г	1216	85.2	95.4	54	56.5	58.4		162	618	618	618 NO	ON ON	61.8 ND ND 105

(RESTRICTED USE)

SUMMARY OF XRF FIELD SCREENING RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

							QN	15		QN			QN	-	QN	
SB-6	0.5.0	9/4/01	Soil	Grab	mg/kg			835	2160		87,900	<58		<28		80.5
SB-3	2.0-3.0	9/4/01	Soil	Grab	mg/kg		<29	<270	QN	GN	12,500	GN	GN	QN	GN	QN
SB-12	1.0-2.3	9/4/01	Soil	Grab	mg/kg		GN	<320	QN	GN	15,800	<45	QN	<23	QN	63.9
SB-12	0.5-1.2	9/4/01	Soil	Grab	mg/kg		QN	<240	QN	GN	7,330	<45	QN	QN	GN	64.3
SB-5	0.2.0	9/4/01	Soil	Grab	mg/kg		QN	<230	QN	QN	5,750	<44	QN	GN	GN	<52
SB-1	0.7-2.0	9/4/01	Soil	Grab	mg/kg		<33	<320	QN	QN	15,600	<46	QN	QN	QN	<57
SB-1	7.0-0	9/4/01	Soil	Grab	mg/kg		GN	<360	QN	QN	19,500	67.5	QN	QN	QN	127
HA-2	0.3-1.5	9/4/01	Soil	Grab	mg/kg		QN	<210	QN	GN	0000'9	<41	QN	<20	QN	<51
SB-23	8.0-11.0	9/4/01	Soil	Grab	mg/kg		QN	GN	QN	QN	3,350	<41	<21	GN	QN	<50
SB-23	6.0-8.0	9/4/01	Soil	Grab	mg/kg		GN	QN	QN	QN	5,470	GN	QN	QN	QN	57
SB-23	4.0-6.0	9/4/01	Soil	Grab	mg/kg		QN	QN	<410	<100	13,100	<43	<1500	<22	<200	<54
SB-23	3.0-4.0	9/4/01	Soil	Grab	mg/kg		GN	<300	<440	<100	14,700	<43	<1700	43	<210	<55
	_	1	10	11,	AU	14	\ '\	I A	יצ	٩N	IMI	73	В	d	_	_
Location Identification	Sample Depth (feet)	Sampling Date (mo/d/yr)	Matrix	Sample Type	Units	METALS	Arsenic	Chromium	Cobalt	Cooper	Iron	Lead	Manganese	Mercury	Nickel	Zinc

	9-8S	SB-14	HA-4	HA-4	HA-3	HA-3	HA-3	SB-8	SB-20A	SB-20A	SB-13	HA-7
	13.8-14.2	2.0-3.0	0.5-1.0	5.0-5.5	0.5-1.5	1.5-2.5	4.5-5.0	9.5-10.5	0-0.5	0.5-3.5	0.3-4.0	0-1.0
-	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/5/01	9/5/01	9/5/01	9/5/01
-	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
-	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	nıg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
-												
ΛΞ	<36	QN	<28	QN	QN	QN	QN	QN	QN	QN	QN	QN
-	<560	<240	<230	QN	<180	<200	<200	<180	<270	<320	<440	<290
N.		QN	QN	353	315	320	281	292	GN	556	GN	GN
-		QN	QN	GN	QN	QN	GN	QN	QN	QN	QN	QN
IWI	51,500	7,800	009'9	4,350	3,080	4,180	3,600	2,170	11,200	14,300	25,100	18,500
ורו	<52	87.4	QN	<39	<38	<38	<41	QN	<45	GN	58.5	60.4
	0	QN	QN	GN	GN	QN	QN	QN	QN	QN	QN	QN
_		<23	QN	<20	<20	<21	<20	QN	QN	<24	<22	QN
	378	QN	QN	GN	GN	QN	GN	GN	GN	GN	QN	20
_	80.4	<54	89	<47	<48	<51	<50	<50	<54	<50	134	959

Location Identification		SB 2-7	SB 2-7	SB 2-7	SB 2-8	SB 2-8	SB 2-8	SB 2-9	SB 2-9	SB 2-10	SB 2-10	SB 2-11	SB 2-11
Sample Depth (feet)	_	1-2	8.4-8.7	23-24	1.3-2.0	12.5-12.9	14-14.6	0-2	16-19	0-2	14-14.5	0.8-2.0	20-20.3
Sampling Date (mo/d/yr)	1	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/21/02	6/21/02	6/21/02	6/21/02
Matrix	10	Soil	Soil	Soil	Soil	Sludge	Sludge	Soil	Soil	Sludge	Soil	Soil	Soil
Sample Type	IT,	Grab	Grab	Grab	Grab	Composite	Composite	Grab	Grab	Composite	Grab	Grab	Grab
Units	A S	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	nıg/kg	mg/kg	mg/kg
METALS	IT:												
Arsenic	EZ	QN	QN	QN	QN	QN	QN	QN	GN	QN	QN	GN	GN
Chromium	۸۸	QN	QN	QN	QN	GN	QN	QN	QN	QN	QN	QN	QN
Cobalt	11	QN	QN	QN	QN	QN	QN	GN	QN	QN	QN	QN	QN
Copper	IA	QN	QN	QN	GN	GN	GN	QN	GN	QN	QN	QN	QN
Iron	DI	13,299.2	10,496	2,508.8	12,998.4	11,897.6	3,808	25,088	2,668.8	2,089.6	1,939.2	4,249.6	985.6
Lead	WE	72.9	9 09	ON	QN	QN	GN	55.7	QN	QN	QN	QN	QN
Manganese	3E	GN	QN	QN	QN	QN	GN	GN	QN	QN	QN	QN	QN
Mercury	1	QN	QN	QN	QN	GN	QN	QN	QN	GN	QN	QN	QN
Nickel		QN	QN	QN	GN	QN	QN	GN	ON	6,579.2	29,388.8	1,040	8,947.2
Zinc		213.4	135.8	QN	57.4	1597	GN	224	QN	CN	CN	526	ON

밁

33 7,954 130

507 551 216 12,138 72

AVERAGE OF DETECTIONS

TABLE 2

(RESTRICTED USE)

SUMMARY OF XRF FIELD SCREENING RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

SB-24A	10.0-12.0	9/4/01	17.0	Soil	Grab	mo/kg		-	QN	<300	000	6320	76>	00000	13,600	<44	QN	-	23	QN	<54	
SB-24A	8.0-10.0	9/4/01		Soil	Grab	mo/ka			CN	<350	000	<500	<110	00, 0,	18,400	<46	<1800	000	QN	QN	77.0	6:11
SB-24A	6.0-8.0	9/4/01		Soil	Grab	mother	HIGH NO.		<31	S		348	GN		6,480	<43	<1200	0071	QN	<180	600	7.70
SB-24A	4.0-6.0	9/4/01	1000	Soil	Grab	and the same	Budin		<31	CN	Q.	909	CN		11,700	<45	V1500	0001>	<23	QN	337	533
SB-13	0-0.3	9/5/01	1000	Soil	Grah		mg/kg		<35	-470	0/45	737	CN		32,900	<51	CIV	GN	QN	CZ	000	138.0
SB-16	0.5-1.8	0/5/01	3/3/01	Soil	Grah	anio i	mg/kg		<32	0367	097>	QN	CN	CINI	8,130	45 R	CIA	ON	ON	CN	0.55	6.77
SB-16	0-0.5	0,6104	9/3/01	Soil	Grah	Glan	mg/kg		CN			1020			27,400	60.4						169
SS-1	AllA	10110	9/4/01	Sludge	O CHILDREN	Composite	mg/kg		CIV	200	243	GN		CIN	8.920	047	01.	ON	CN		ON.	105
HA-3	0 5 4 0	0.1.0	9/4/01	Soil		Grab	mg/kg		014		<210	CN		GN	5 040	1000	143	QN	555	47	ON CONTRACT	<51
SR.R		1.0-2.0	9/4/01	Coil		Grab	mg/kg		00.	87>	<180	CZ	- Can	GN	2 800	000'7	<39	QN N	CZ	2	ON.	92.7
V 33	100	N/A	9/4/01	Chidas	Single	Composite	mg/kg		200	<21	<260	466	400	152	44 600	000,11	41.1	QN		Q.	QN	349
6 00	0000	N/A	9/4/01	100	Sinage	Composite	mg/kg			QN	<270	0.7	QN	257	000 31	002,61	56.8	CN		ND	QN	338
		_	_	N	01	1	AU	ורו	A	13	,	12	10	1	IIV	VI-	13	В	d			_
	ocation Identification	Sample Depth (feet)	Campling Date (moldkyr)	ampling Date (moray)	Matrix	Sample Type	nits	0 1470	EIALS	Arsenic		nromunn	Cobalt		obbei	ron	Lead	-	Nanganese	Mercury	Nickel	Zioc

	2.5-3.0 9.5-10.0 6.0-6.5	9/5/01 9/5/01 9/5/01	Soil Soil	Grab Grab Grab	mg/kg mg/kg mg/kg		<28 ND ND	<210 <180 <200	QN QN QN	QN QN QN	6,460 4,640 5,030	<39 <34 43.3	GN GN	ND <18 ND	QN QN
Sample Depth (feet) 2.5		_	10	e Type	∆U.	METALS	Arsenic	8	Coball		IW.		Mandanese		Nickel Mickel

6/17/02	Soil	Grab	mg/kg	QN	386.8	QN	QN	13,094.4	GN	QN	QN	QN	QN
6/17/02	Soil	Grab	mg/kg	QN	GN	GN	QN	11,795.2	QN	QN	QN	QN	69.5
6/17/02	Soil	Grab	mg/kg	QN	GN	GN	QN	15,795.2	QN	GN	QN	QN	QN
6/17/02	Soil	Grab	mg/kg	QN	9.709	GN	QN	23,193.6	247	QN	GN	317.4	632.8
6/17/02	Soil	Grab	mg/kg	QN	QN	QN	QN	7,014.4	QN	QN	QN	QN	QN
6/17/02	Soil	Grab	mg/kg	QN	GN	GN	GN	2.209.6	QN	QN	QN	QN	QN
6/17/02	Soil	Grab	mg/kg	CX	436	QN	QN	8 659.2	ON	GN	QN	QN	62.5
17/02	Soil	Grab	mg/kg	CN	GN	QN	239	98 252 8	263.8	QN	GN	GN	130.4
	6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02	6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 Soil Soil Soil Soil Soil	6/17/102 6/17/102	6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 6/17/02 Soil Soil Soil Soil Soil Grab Grab Grab Grab Grab mg/kg mg/kg mg/kg mg/kg	6/17/02 6/17/02 <t< td=""><td> 6/17/102 6/17/102</td><td>6/17/02 <t< td=""><td>6/17/02 <t< td=""><td>6/17/102 6/17/102</td><td> March Marc</td><td>6/17/02 <t< td=""><td>6/17/102 6/10 6/17/102 <th< td=""><td>617702 61702 61702 61702 61702 617702 61702</td></th<></td></t<></td></t<></td></t<></td></t<>	6/17/102 6/17/102	6/17/02 6/17/02 <t< td=""><td>6/17/02 <t< td=""><td>6/17/102 6/17/102</td><td> March Marc</td><td>6/17/02 <t< td=""><td>6/17/102 6/10 6/17/102 <th< td=""><td>617702 61702 61702 61702 61702 617702 61702</td></th<></td></t<></td></t<></td></t<>	6/17/02 6/17/02 <t< td=""><td>6/17/102 6/17/102</td><td> March Marc</td><td>6/17/02 <t< td=""><td>6/17/102 6/10 6/17/102 <th< td=""><td>617702 61702 61702 61702 61702 617702 61702</td></th<></td></t<></td></t<>	6/17/102 6/17/102	March Marc	6/17/02 6/17/02 <t< td=""><td>6/17/102 6/10 6/17/102 <th< td=""><td>617702 61702 61702 61702 61702 617702 61702</td></th<></td></t<>	6/17/102 6/10 6/17/102 <th< td=""><td>617702 61702 61702 61702 61702 617702 61702</td></th<>	617702 61702 61702 61702 61702 617702 61702

	_	_	_		_	_	\vdash	-	-	+	-	_	_	-	_	-	_
HIGH							QN	835	2 160	2014	257	98,253	264	QN	43	29,389	633
DETECTION							GN	243.0	281.0	0:103	152.0	25.7	37.3	QN	23.0	20.0	25.9
NUMBER OF	COINT LES	ABOVE	CONTITATION	LIMIT			0	9	10	6	3	104	24	0	2	10	52
SED-5				Grab	mg/kg		QN	QN	CZ	QV.	QN	16,896	53.1	QN	QN	QN	241.2
SED-4	Surface	6/17/02	Soil	Grab	mg/kg		QN	CN	CZ	ON	QN	14,195.2	QN	GN	GN	QN	62.3
SED-3	Surface	6/17/02	Soil	Grab	mg/kg		GN	CN	014	ON	QN	9,164.8	QN	GN	CN	QN	1496
SED-2	Surface	6/17/02	Soil	Grab	mg/kg		CN	CN		ON	QN	19,891.2	37.3	QN	GN	QN	196
SED-1	Surface	6/17/02	Soil	Grab	mq/kq		CN	CN		GN	QN	11,296	40.4	QN	QN	GN	349.2
SB 2-13	11-11.3	6/21/02	Soil	Grab	mq/kg	*	CN	ON ON	GN .	ON	QN	1.540	QN	QN	QN	21.491.2	QN
SB 2-13	1.2	6/21/02	Soil	Grab	ma/ka		OIN	C.V	ON.	QN	QN	6.560	QN	QN	QN	11 200	QN
SB 2-12	15-15.4	6/21/02	Soil	Grab	ma/ka		014	ON CIA	GN	ON	GN	6 995 2	54	QN	CN	QN	QN
SB 2-12	0.0.8	6/21/02	Shidoe	Composite	molko	200	0.7		2	CN	CZ	12 198 4	CN	GN	CN	CN	503
F			NC	DIT	A:)I.	LS	3/	N	1	14	10	3V	EV	Я	_	_
Location Identification	Sample Depth (feet)	Sampling Date (mo/d/vr)	Matrix	Sample Type	Unite	2	MEIALS	Arsenic	Chromium	Cobalt	10000	Copper	pro-	Manager	Mariganese	Merculy	Zioc

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

(RESTICTED USE) SUMMARY OF PCB AND PAH FIELD SCREENING RESULTS, RI

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

LOCATION	SAMPLE	SAMPLE	SAMPLE	PCB IMMUNOASSAY	PAH IMMUNOASSAY
IDENTIFICATION	DEPTH (ft)	DATE	TYPE	RESULT (mg/kg)	RESULT (mg/kg)
MW-1	0.0 - 2.0	6/10/02	GRAB	>1 <10	>10
MW-1	10.0 - 11.9	6/10/02	GRAB	>10	>10
MW-1	24.0 - 26.0	6/10/02	GRAB	>10	>10
SB2-3	0.0 - 0.5	6/17/02	GRAB	******>1 <10 *******	>10
SB2-3	14.0 - 15.0	6/17/02	GRAB	>10	>10
SB2-4	0.0 - 2.0	6/17/02	GRAB	<1	>1 <10
SB2-4	14.0 - 14.9	6/17/02	GRAB	<1	<1
SB2-5	0.6 - 1.4	6/17/02	GRAB	>1 <10	>1 <10
SB2-5	14.9 - 15.7	6/17/02	GRAB	>10	>10
SB2-6	0.0 - 1.0	6/17/02	GRAB	<1	>1 <10
SB2-6	15.0 - 15.6	6/17/02	GRAB	<1	<1
SB2-7	1.0 - 2.0	6/17/02	GRAB	<1	>10
SB2-7	8.4 - 8 <mark>.</mark> 7	6/17/02	GRAB	>1 <10	>10
SB2-7	23.0 - 24.0	6/17/02	GRAB	>10	>10
SB2-8	1.3 - 2.0	6/17/02	GRAB	<1	<1
SB2-8	12.5 - 12.9	6/17/02	GRAB	<1	<1
SB2-8	14.0 - 1 <mark>4</mark> .6	6/17/02	GRAB	<1	<1
SB2-9	0.0 - 2.0	6/17/02	GRAB	>1 <10	>1 <10
SB2-9	16.0 - 19.0	6/17/02	GRAB	>10.	The same of the sa
SB2-10	0.0 - 2.0	6/17/02	GRAB	<1	>1 <10
SB2-10	14.0 - 14.5	6/17/02	GRAB	<1	<1
SB2-11	0.8 - 2.0	6/17/02	GRAB	<1	<1
SB2-11	20.0 - 20.3	6/17/02	GRAB	<1	<1
SB2-12	0.0 - 0.8	6/17/02	GRAB	<1	<1
SB2-12	15.0 - 15.4	6/17/02	GRAB	<1	<1
HS2-1	0.0 - 0.5	6/17/02	GRAB	>10	>1 <10
HS2-1	0.5 - 0.7	6/17/02	GRAB	>1 <10	<1
HS2-2	0.0 - 3.0	6/17/02	GRAB	<1	<1

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

. TABLE 3

(UNRESTRICTED USE) SUMMARY OF PCB AND PAH FIELD SCREENING RESULTS, RI

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

LOCATION IDENTIFICATION	SAMPLE DEPTH (ft)	SAMPLE DATE	SAMPLE TYPE	PCB IMMUNOASSAY RESULT (mg/kg)	PAH IMMUNOASSAY RESULT (mg/kg)
SED-1	NA	6/10/02	COMP	<2	≥2 ≤20
SED-2	NA	6/10/02	COMP	<2	<2
SED-3	NA	6/10/02	COMP	>2 <20	>2 <20
SED-4	NA	6/10/02	COMP	>1 <10	<1
SED-5	NA	6/10/02	COMP	<2	<2
MW-2	0.0 - 3.0	6/10/02	GRAB	>1<10	\$1 <10
MW-2	14.0 - 16 <mark>.</mark> 0	6/10/02	GRAB	<1	<1
MW-3	0.7 - 1.1	6/11/02	GRAB	<1	<1
MW-3	4.8 - 5.2	6/11/02	GRAB	<1	<1
SB2-1	0.4 - 1.1	6/11/02	GRAB	<1	<1
SB2-1	10.0 - 10.3	6/11/02	GRAB	<1	<1
SB2-2	0.2 - 1.0	6/11/02	GRAB	<1	<1
SB2-2	13.3 - 13 <mark>.</mark> 6	6/11/02	GRAB	<1	<1
SB2-13	1.0 - 2.0	6/17/02	GRAB	<1	<1
SB2-13	11.0 - 11.3	6/17/02	GRAB	<1	<1

(UNRESTRICTED USE)

SUMMARY OF NON-HSCA LABORATORY ANALYSIS RESULTS, SITE CHARACTERIZATION

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

				* - ?: h. 1: 1: 1: 1: 1: 1: 1: 1	SE # [] 1 1 1 2 3	からない できる はない 日本 日 日子 といる 本日	San the trees	1711年からいいかりょう	S T. T. 1714	and make characters	. S. C. C. Chen Millians
noiteofileople office I				PB-1W	PB-2N	PB-3S	PB-4E	HS-1	HS-2	HS-3	HS-4
Location Identification				0-0.5	0-0.5	0-0.5	0-0.5	0-0.3	0-0.5	0-0.4	0-1.0
Deptin (reet)	IIBS for	-	DNREC-	8/27/02	8/27/02	8/27/02	8/27/02	4/18/02	4/19/02	4/19/02	4/19/02
ing Date (mordayiyi)		eq	UST "Tier 0"	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Tues	Use (mo/kg)	Use	Standard	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
	16.6.1	(mg/kg)	(mg/kg)	mq/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Moisture Content (%)				10.5	6.3	3.3	4.3	5.47	3.04	2.25	6.45
TCI VOI ATII E ORGANIC COMPOUNDS by SW-846 8260	SONDOMOS	3 by SW-846	8260								
Ethylhonzene	400	5,000		IN	TN	IN	NT	NT	IN	IN	IN
Xvlene (Total)	420	5,000		IN	TN	IN	NT	NT.	NT	NT	N
POLYNIJCI FAR AROMATIC HYDROCARBONS (PAHS) by SW-846 8270	HYDROCAL	RBONS (PA	Hs) by SW-84	16 8270							
Naphthalene c	160	4,100	N.	TN	IN	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	5,000		IN	IN	NT	NT	NT	N	NT	NT
TOTAL PETROLEUM HYDROCARBONS (TPH) by SW-846 8015	OCARBONS	S (TPH) by S	W-846 8015								
Diesel / #2 Firel	NF	IN	JUUU	IN	TN	IN	IN	IN	NT	IN	NT
#6 Firel Oil	NF		1,000	IN	IN	NT	IN	NT	NT	NT	NT
Motor Oil	NF		1,000	TN	IN	NT	IN	IN	IN	NT	NT
TOTAL PETROLEUM HYDROCAL	SOCARBONS	S (TPH) by E	RBONS (TPH) by EPA METHOD 418.1	418.1							
Total	NF	NI.	1,000	IN	NT	NT	NT	NT	IN	NT	NT
POLYCHLORINATED BIPHENYL	ENYLS (PCB	S (PCBs) by SW-846 8081	16 8081								
PCB Aroclor 1254	0.3	3	N.	IN	NT	NT	NT	NT	NT	NT	NT
METALS BY SW-846 6000 AND 7	AND 7000 SE	000 SERIES METHODS	Sao								
Antimony	3	82	¥	IN	IN	NT	IN	IN	NT	IN	NT
Arsenic	11	-	Z	IN	IN	NT	NT	10.3	2.9	2.5	8.4
Bariim	550	14,000	Į	IN	NT	TN	NT	IN	NT	NT	NT
Becyllin	16			IN	IN	IN	NT	IN	NT	NT	NT
Cadminm	4	100		IN	IN	NT	NT	IN	NT	NT	NT
Chromium	270			IN	IN	IN	NT	NT	NT	NT	NT
20000	310			IN	TN	IN	IN	NT	NT	IN	NT
l pad	400			42.6	471	200	174	NT	NT	NT	NT
Mercury	10			IN	IN	NT	IN	IN	NT	IN	NT
Nickel	160	0		IN	IN	IN	IN	NT	IN	NT	TN
Selenium	39			IN	IN	IN	IN	IN	NT	NT	IN
Silver	39			IN	IN	IN	NT	IN	. TN	IN	IN
Thallium	18	220	Ź	IN	NT	NT	IN	IN	NT	IN	NT
Vanadium				45.1	153	118	177	IN	IN	IN	IN
Zinc	2,300	61,000	ź	IN	IN	IN	TN	IN	NT	IN	IN
ZIIIC						-	-				

(RESTRICTED USE)

SUMMARY OF NON-HSCA LABORATORY ANALYSIS RESULTS, SITE CHARACTERIZATION

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

URS for URS	KEC- dard /kg) NL NL SW-8	Slab Removal Slag 0-3 5/31/02 Soil	GO Tank SP N/A	GO Tank 2 ft Below Bottom	W end #6 UST 13-14 4/18/02	Inside #6 UST 7.5-8.0	N/A	N/A
URS for URS for URS for URS for Depth (feet) Ure stricted UST Unrestricted UST Unrestricted UST Units USE (mg/kg) (mg/	REC- dard dard (kg) NL NL NL NL NL NL NL NL S 8015	0-3 5/31/02 Soil	N/A	2 ft Below Bottom	13-14	7.5-8.0	N/A	N/A
Depth (feet)	1ST "Tier 0" Standard (mg/kg) (mg/kg) 8260 NL Is) by SW-84 NL NL	5/31/02 Soil	4149703	000	4/18/02	0000	4125102	4105100
Sampling Date (mo/day/yr) UrkS Inc Matrix Unrestricted Use Sample Type Use (mg/kg) (mg/kg) (mg/kg) Units Use (mg/kg) (mg/kg) (mg/kg) (mg/kg) Units Use (mg/kg) (mg/kg) (mg/kg) Units Use (mg/kg) (mg/kg) (mg/kg) (mg/kg) Units Use (mg/kg)	Standard (mg/kg) (mg/kg) NL	Soil	711/1/17	4/19/02	10001	4/18/02	4123102	4/25/02
Matrix Unrestricted Use State State State <td>Standard (mg/kg) </td> <td>2011</td> <td>Soil</td> <td>Soil</td> <td>Soil</td> <td>Soil</td> <td>Soil</td> <td>Soil</td>	Standard (mg/kg)	2011	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type Use (mg/kg) (mg/kg) (m Units Moisture Content (%) (mg/kg) (mg/kg) (mg/kg) TCL VOLATILE ORGANIC COMPOUNDS by SW-846 826 Ethylbenzene 400 5,000 Ethylbenzene 420 5,000 Xylene (Total) 420 5,000 Phenanthrene 1,000 5,000 Phenanthrene 1,000 5,000 TOTAL PETROLEUM HYDROCARBONS (TPH) by SW-8 NL Motor Oil NL NL Total NL NL POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8 PCB Aroclor 1254 3 METALS BY SW-846 6000 AND 7000 SERIES METHOD A100 Ansenic 3 410 Beryllium 550 410 Cadmium 270 610 Copper 400 1000	(mg/kg) 8260 NL NL Is) by SW-84 NL NL	Acres 4	Composite	Grab	Grab	Grab	Composite	Composite
Units Units Moisture Content (%) F,000 TCL VOLATILE ORGANIC COMPOUNDS by SW-846 826 Ethylbenzene 400 5,000 Ethylbenzene 420 5,000 Xylene (Total) 420 5,000 PoLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) A,100 Naphthalene 1,000 5,000 Phenanthrene 1,000 5,000 TOTAL PETROLEUM HYDROCARBONS (TPH) by SW-846 NL Motor Oil NL NL Total NL NL POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8 PCB Aroclor 1254 3 METALS BY SW-846 6000 AND 7000 SERIES METHOD Arisenic 3 Arsenic 3 410 Barium 550 410 Cadmium 270 610 Chromium 270 610 Copper 400 1,000	8260 NL NL NS by SW-84 NL NL	Grab	Composito	malka	ma/ka	mg/kg	mg/kg	mg/kg
Moisture Content (%)	8260 NL Is) by SW-84 NL NL N-846 8015	тд/кд	Bulging	8 04	13.3	15.2	2.62	98.9
TCL VOLATILE ORGANIC COMPOUNDS by SW-846 826	8260 NL Is) by SW-84 NL NL N-846 8015	7.7	7.71	6.0				
Ethylbenzene 400 5,000 Xylene (Total) 420 5,000 POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) Naphthalene 1,000 4,100 Phenanthrene 1,000 5,000 5,000 Phenanthrene 1,000 5,000 Phenanthrene 1,000 5,000 Phenanthrene NL NL Diesel / #2 Fuel NL NL Motor Oil NL NL Total NL NL POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8 PCB Aroclor 1254 0.3 3 METALS BY SW-846 6000 AND 7000 SERIES METHOD Antimony 3 Acreatic 410 Antimony 17 11 11 11 Barium 550 14,000 610 Cadmium 270 610 1,000 Copper 400 1,000 1,000	NL NL 1s) by SW-84 NL NL N-846 8015				77.4	TIA	TIN	0.26
A200 A5000	NL (s) by SW-84 NL NL N-846 8015	TN	0.027	QN	Z	1/1	101	0000
Ayjene (10tal)	1s) by SW-84 NL NL N-846 8015	TN.	0.074	QN	IN	N	N	0.00
Naphthalene	N. N	6 8270						
Naphthalene	NF N-846 8015	0.43	TN	IN	TN	IN	IN	IN
Phenanthrene	V-846 8015	0.43	TW	IN	TN	IN	TN	TN
TOTAL PETROLEUM HYDROCARBONS (TPH) by SW-8. Diesel J #2 Fuel NL NH #6 Fuel Oil NL NL Motor Oil NL NL TOTAL PETROLEUM HYDROCARBONS (TPH) by EPA TOTAL NL POLYCHLORINATED BIPHENYLS (PCBs.) by SW-846 8 PCB Aroclor 1254 0.3 3 PCB Aroclor 1254 0.3 3 82 Antimony 11 11 Arsenic 3 82 Barium 550 14,000 Beryllium 16 410 Cadmium 270 610 Copper 300 8,200 Copper 1,000 1,000	V-846 8015	0.74						
Diesel / #2 Fuel NL			THE RESIDENCE OF THE PROPERTY				OF Carrier	ALT
Motor Oil	J 000	TN	2,400	QN	QN	QN	407	2
Motor Oil NL	000	TN	QN	QN	38,000	8,500	QN	IN
Motor Oil		TIV	4 300	GN	GN	QN	670	IN
TOTAL PETROLEUM HYDROCARBONS (TPH) by EPA Total NL NL POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8 3 3 PCB Aroclor 1254 0.3 3 METALS BY SW-846 6000 AND 7000 SERIES METHOD 82 Antimony 3 82 Arsenic 11 11 Barium 550 14,000 Beryllium 16 410 Cadmium 270 610 Chromium 270 610 Copper 400 1,000	Inne							
NL	A METHOD	418.1			-	200		25.000
CCHLORINATED BIPHENYLS (PCBs) by SW-846 8 Aroclor 1254 0.3 3 ALS BY SW-846 6000 AND 7000 SERIES METHOD Inc 3 82 Inc 11 11 Inc 550 14,000 Itium 16 410 Ind 410 410 mium 270 610 mium 370 8,200 ner 4000 1000	1,000	TN	IN	IN	N	N	10	
PCB Arcclor 1254	6 8081							
METALS BY SW-846 6000 AND 7000 SERIES METHOD Antimony	JN.	TN	0.034	QN	IN	N	N	QN
Antimony 3 Arsenic 11 Arsenic 17 Barlum 550 Cadmium 270 Copper 310 B,200 Copper 400								
11 11 16 16 17 10 10 10 10 10 10 10 10 10 10 10 10 10	IN STATE OF	ON	CN	GN	IN	IN	NT	IN
m 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		0/4/200	CN	QN	IN	TN	IN	IN
250 14, 16 16 14, 16 14		_	K2 2	7.7.0	IN	IN	IN	TN
16 4 270 310 8		N		CIN	TW	TN	IN	IN
270 270 310 8	2	ON :	2	CIA CIA	TIN	TM	IN	IN
270 310 8	-10			1	111	TW	TIV	TM
310 8	Z	8.8	27.5	12.2	N	N	111	111
7007	NE	10.3	IN	N	IN	N	N	IN
	Z	QN	QN	QN	IN	IN	N	NT
000	1	CIN	CN	QN	IN	IN	IN	NT
Mercury		1	ON	CN		TN	IN	IN
Nickel 4,100		0.7	ON INC	ON !	1	1	TIV	TIN
Selenjium 39 1,000	ŧ	1.1	QN	QN	N	N	N	1
39 1,000	Z	QN	QN	QN	IN	NT	IN	N
18	N	QN	QN	QN	IN	IN	NT	IN
	Z	IN	IN	IN	IN	TN	IN	IN
Mniba		ON	ON	CN	IN	IN	IN	IN
Zinc 2,300		QN			-			

 Volatile organic toluene, ethylber TEN BEARS ENVIRONMENTAL, LLC November 2002

(RESTRICTED USE)

SUMMARY OF NON-HSCA LABORATORY ANALYSIS RESULTS, SITE CHARACTERIZATION

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				Stocknile	Fast Sidewall	Stocknile East Sidewall 2 ft Below Tank	2 ft Below Tank	Stockpile
ocation Identification		_	1	N/A	6-8	13-14	16-17	N/A
Depth (feet)	I IDC for	_	DNREC	4125/02	4/25/02	4/25/02	8/1/02	8/1/02
Sampling Date (mo/day/yr)	Inrestricted	eq	UST "Tier 0"	Soil	Soil	Soil	Soil	Soil
Matrix	Use (mo/kg)		Standard	Composite	Grab	Grab	Grab	Composite
Sample Type	(Byrigini) aso	(mg/kg)	(mg/kg)	ma/ka	mq/kg	mg/kg	mg/kg	mg/kg
Moisture Content (%)				7.5	5.35	11.7	96.6	76.7
TCI VOI ATILE ORGANIC C	SOMPOUNDS	OMPOUNDS by SW-846 8260	260					
The department of the state of	400	5,000		IN	IN	NT	NT	IN
Xylene (Total)	420	2,000	Ź	TN	IN	NT	IN	IN
POLYNUCLEAR AROMATIC	()	HYDROCARBONS (PAHs) by SW-8	3) by SW-8					
Monthalana	•	0017	N.	IN	QN	IN	IN	IN
Phenanthrene	1,000	5,000	ź	IN	QN	IN	NT	IN
TOTAL PETROLEUM HYDR	ROCARBONS	OCARBONS (TPH) by SW-846 8015	-846 8015					
Discal / #2 Enal	NF	N	4,000	QN	IN	QN	QN	GN
HE First Oil	NF	. 1	1,000	3,400	IN	28,000	68,000	5,400
Motor Oil	NL	Į.	1,000	QN	IN	QN	ON	QN
TOTAL PETROLEUM HYDR	ROCARBONS	ROCARBONS (TPH) by EPA METHOD	A METHOD					
Cotal	NF	NE	1,000	TN	IN	IN	NT	IN
POLYCHLORINATED BIPH	IENYLS (PCE	ENYLS (PCBs) by SW-846 8081	8081					
PCB Aroclor 1254	0.3	6	N	NT	NT	IN	IN	IN
METALS BY SW-846 6000	AND 7000 SE	AND 7000 SERIES METHODS	DS					
Antimony	3	83	I	IN	NT	IN	NT	IN
Arsenic	11	F		IN	NT	IN	IN	IN
Barium	550	14,000	N	IN	IN	IN	NT	IN
Beryllium	16	410	N	IN	NT	IN	TN	IN
Cadminm	4	100	Z	NT	IN	IN	NT	IN
Chromium	270	610	Z	IN	IN	IN	NT	IN
Copper	310	8,200	Z	IN	IN	IN	NT	IN
Load	400	1,000	Z	N	IN	IN	NT	IN
Morgins	10	610	Z		IN	IN	IN	IN
Nickel	160	4.100	Z	N	IN	IN	NT	IN
Salanium	39		H	TN	IN	TN	NT	IN
Silver	39	1,000	7	IN	NT	IN	NT	IN
Thallium	18	220		IN	IN	IN	IN	IN
Vanadium				IN	IN	IN	NT	IN
alianialii			CONTRACTOR OF THE PARTY OF THE					

s analysis was for BTEX compounds (benzene, zene, and xylenes) only.

(UNRESTRICTED USE)

SUMMARY OF NON-HSCA LABORATORY ANALYSIS RESULTS, DISPOSAL CHARACTERIZATION

CANNERY VILLAGE MILTON, DELAWARE

ocation Identification		CA-SP	CA-WW
ocation identification	-	55	
Description	Resource Conservation and Recovery Act	Composite of coal ash observed in the southern and southeastern portions of the plant area	Composite of coal ash observed in wastewater treatment area
	(RCRA) limits	0-0.5	0-0.5
Depth (feet) Sample Type	- '	Composite	Composite
Sampling Date (month/day/year)		6/10/02	6/10/02
Matrix		Soil	Soil
Moisture	NA	NT	NT
OXICITY CHARACTERISTIC	LEACHING PROCEDU	RE(TCLP) in mg/L	
OLATILE ORGANICS			
All Compounds-	VARIOUS	NT	NT
SEMIVOLATILE COMPOUNDS			
All Compounds-	VARIOUS	NT	NT
PESTICIDES / HERBICIDES			
All Compounds-	VARIOUS	NT	NT
RESOURCE CONSERVATION	AND RECOVERY ACT	(RCRA) EIGHT METALS (mg/L)	
Arsenic	5.0	0.0841 J	0.0168 J
Barium	100.0	0.406	0.25
Chromium	5.0	ND	ND
Cadmium	1.0	0.0051 J	ND
Lead	5.0	0.112 J	ND
Mercury	0.2	ND	ND ND
Selenium	1.0	0.0093 J	0.0054 J
Silver	5.0	ND	. ND
WETCHEMISTRY			
Corrosivity (pH - standard units	2 < pH < 12.5	NT	NT
Ignitability (sustain flame)	Does not	NT	NT NT
Reactive Cyanide (mg/kg)	100	NT	NT
Reactive Sulfide (mg/kg)	500	NT	NT
TOTAL PETROLEUM HYDRO	CARBONS (mg/kg) by	SW-846 418.1	NT
Result	NA NA	NT	N
BTEX (mg/kg) by SW-846 826	ia 📒		NT
Benzene	NA	NT NT	NT
Toluene	NA	NT	NT
Ethylbenzene	NA	NT	NT
Total Xylenes	NA NA	NT	
TOTAL ORGANIC HALOGEN	S (mg/kg) by SW-846 9	UZUE	NT
Pocult	I NA	IN I	
POLYCHLORINATED BIPHE	NYLS (PCBs) in mg/kg	by 5W-346 8U8∠.	NT
Aroclor 1260	NA	NT	141

(RESTRICTED USE)

SUMMARY OF NON-HSCA LABORATORY ANALYSIS RESULTS, DISPOSAL CHARACTERIZATION

CANNERY VILLAGE MILTON, DELAWARE

Location Identification		Tank Fill - D	Stockpile	CA-US
	Resource Conservation and	Tank contents and stained soils from 15,000-gallon UST Removal	Tank contents and stained soils from 10,000-gallon UST Removal	Composite of granular slag at SRGSS sample location west of Building 26
Description	Recovery Act			0.05
Depth (feet)	(RCRA) limits	NA NA	NA	0-0.5 Composite
Sample Type		Composite	Composite	6/10/02
Sampling Date (month/day/year)		4/25/02 Soil	8/1/02 Soil	Soil
Matrix	1/4	6.86	8.75	NT NT
Moisture	NA NA		8.75	141
TOXICITY CHARACTERISTIC LE	ACHING PROCEDUR	E(ICEP) in mg/C	ing a series of the series of	e ja variantiin kan ka
VOLATILE ORGANICS				NIT
-All Compounds-	VARIOUS	ND	ND	NT
SEMIVOLATILE COMPOUNDS				
-All Compounds-	VARIOUS	ND	ND	NT
PESTICIDES / HERBICIDES				
-All Compounds-	VARIOUS	ND	ND	NT
RESOURCE CONSERVATION A	ND RECOVERY ACT	(RCRA) EIGHT METALS (mg/L	_)	
Arsenic	5.0	ND	0.0873 J	ND
Barium	100.0	0.363	2.14	0.155
Chromium	5.0	ND	0.0927	ND
Cadmium	1.0	ND	0.0177	ND
Lead	5.0	ND	0.0974 J	0.0134 J
Mercury	0.2	ND	ND	ND
Selenium	1.0	ND	0.0167 J	0.0051 J
Silver	5.0	ND	0.0411	ND
WETCHEMISTRY				
Corrosivity (pH - standard units)	2 < pH < 12.5	8.31	7.48	NT
Ignitability (sustain flame)	Does not	Does not	Does not	NT
Reactive Cyanide (mg/kg)	100	ND	ND	NT
Reactive Sulfide (mg/kg)	500	ND	ND	NT
TOTAL PETROLEUM HYDROCA	ARBONS (ma/ka) by	SW-846 418.1		
Result	NA	35,000	6,500	NT
BTEX (mg/kg) by SW-846 8260				
	NA NA	ND	0.022	NT
Benzene	NA NA	ND	0.19	NT
Toluene	NA NA	0.26	0.53	NT
Ethylbenzene Total Xylenes	NA	0.88	2.0	NT
TOTAL ORGANIC HALOGENS		The second secon		
9	NA NA	ND	ND	NT
Result POLYCHLORINATED BIPHENY				
	NA (PGBS) III IIIgMg I	ND	0.021	NT
Aroclor 1260	IVA	140	0.021	

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

EXCEL/01-17.b

Page 17 of 56

P.N. 01-17.B Ten Bears Environmental, LLC November 2002

(UNRESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

Location Identification	URS for	URS for	SS-1	SS-2	SS-3	SS-4
Laboratory I.D.	Unrestricted	Restricted			00-0	00-7
Sample Depth (feet)	Use. Non-	Use, Non-				
Sampling Date (mg/d/yr)	critical Water	critical Water	9/4/01	9/4/01	9/4/01	9/4/01
Matrix	Resource	Resource	Sludge	Sludge	Sludge	Sludge
Sample Type	Area (mg/kg)	Area (mg/kg)	Composite	Composite	Composite	Composite
Units	7, 1, 55 (99)		mg/kg	mg/kg	mg/kg	mg/kg
Moisture (percent)			32.4	35.1	77.4	78
pH (standard units)			7.32	7.4	7.16	7.45
TAL METALS						
Aluminum	7,800	200,000	2,730	3.620	12,800	10,400
Antimony	3	82	ND	ND	ND	NC
Arsenic	11	11	2.0	2.3	7.1	8.7
Barium	550	14,000	35.6	48.8	195	181
Bervllium	16	410	0.32	0.37	1.7	1.4
Cadmium	4	100	0.47	0.38	1.9	2.1
Calcium	NL	NI.	1,290	1,180	3,540	3.310
Chromium	270**	610**	18.9	26.4	36.2	41.2
Cobalt	470	12,000	1.8	2	8.3	6.8
Copper	310	8,200	51.4	105	234	190
Iron	2.300	61,000	3,330	4,170	12,200	9.970
Lead	400	1,000	10.8	16.2	26.9	28.6
Magnesium	NL	NIL	695	936	2.410	2,160
Manganese	160	4,100	31.4	46	150	142
Mercury	10	610	0.075	0.11	0.61	0.53
Nickel	160	4,100	12.7	22.7	22.1	26.5
Potassium	NL NL		233	282	1180	1050
Selenium	39	1,000	ND.	ND ND	ND	1030 NE
Silver	39	1,000	ND	ND	ND	NO
Sodium	NL NL	NL	ND	ND	ND	481
Thallium	18	220	ND	ND	ND	NC NC
Vanadium	55	1,400	16.1	34.4	41.3	80
	2.300	61.000	98.3	144	305	344
Zinc		4100***	ND	ND ND	ND ND	NC
TotalCyanide	160***	The second second		I NU	NU	NL
TCL PESTICIDES / POLYCE						
gamma-BHC (Lindane)	0.5	4	ND	0.0004 J	ND	NC
beta-BHC	0.4	3	ND	ND	ND	NC
delta-BHC	NL	NE	ND	0.00045 J	ND	NC
Heptachlor Epoxide	0.07	0.6	ND	NO	ND	NE
gamma-Chlordane	2	16	ND	ND ND	ND	NE
alpha-Chlordane	2	16	ND	ND	l ND	N
4.4'-DDE	2	17.	R	0.032	0.45 J	0.26
Endosulfan I	47	1200	ND	ND	ND	NO
Dieldrin	0.04	0.4	ND	0.0041 JP	ND	0.047 J
Endrin	2	61	ND	ND	ND	N
4.4'-DDD	3	24	ND	0.02	0.21 J	0.093 J
Endosulfan II	47	1200	ND	ND	ND	N
4.4'-DDT	2	17	ND	0.002 J	ND	N
Methoxychlor	39	1000	ND	0.004 J	ND	N
Endosulfan sulfate	47	1200	ND	0.0008 J	ND	N
PCB Aroclor 1248	0.3	3	ND	ND	ND	N
PCB Aroclor 1254	0.3	1		0.1	ND	N

(UNRESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

ocation Identification	URS for	URS for	SB-20A	SB-21	HA-5A	HA-GP-7A
aboratory I.D.	Unrestricted	Restricted				
Sample Deoth (feet)	Use, Non-	Use, Non-	0-0.5	0-1.2	5.0-5.5	1.0-1.5
Sampling Date (mo/d/vr)	critical Water	critical Water	9/5/01	9/4/01	9/5/01	9/5/01
Matrix	Resource	Resource	Soil	Soil	Soil	Soil
Sample Type	Area (mg/kg)	Area (mg/kg)	Grab	Grab	Grab	Grab
Inits	7		mg/kg	mg/kg	mg/kg	mg/kg
Moisture (percent)			10.6	15.1	12.4	9.87
H (standard units)			8.5	NT	6.32	7.37
TAL METALS						
Aluminum	7,800	200,000	2.050	6,180	6,670	2,710
Antimony	3	82	ND	ND	ND	NC
Arsenic	11	11	3.0 L	3.0	ND	NE
Barium	550	14,000	56.5	59.5	11.1	20.8 B
Bervllium	16	410	0.23	0.25	0.21	0.13 B
Cadmium	4	100	0.71	0.4	ND	NE
Calcium	NL	. NL	4,540	10,400	71	658
Chromium	270**	610**	6.3	5.7	4.9	1.8
Cobalt	470	12,000	1.6	1.8	0.71	2.1
Copper	310	8,200	12.6	18.3	2.4 B	4.1
ron	2,300	61,000	4.950	5,440	3,030	1,690
	400		8.8	24.0	3.8	10.0
Lead	NL NL	NE	1,600	5.400	84.3	165
Magnesium	160		74.7	80.7	8.8	11.1
Manganese	100	THE RESERVE OF THE PERSON NAMED IN	ND	0.02 L	ND.	N
Mercury	160		7.2	8.3	1.4	1.5
Nickel			399	516	257	125
Potassium	NL	310000000000000000000000000000000000000	399 ND	ND ND	ND ND	NI NI
Selenium	39	SERVICE SERVIC		ND ND	ND	N
Silver	39		ND ND	ND ND	ND	171
Sodium	NL	一部市场的公司			ND	N
Thallium	18	100000000000000000000000000000000000000		ND 18.1	8.3	3.3
Vanadium	55			81.9	7.8	16.9
Zinc	2,300	-22/00/10/20/20/20/20/20/20				1 10.3
TotalCyanide	160***		ND	ND ND	ND	
TCL PESTICIDES / POLYC	CHLORINATED E	SIPHENYLS (P	(
gamma-BHC (Lindane)	0.5		ND	NT	ND	N
beta-BHC	0.4		0.000	NT	ND	N
delta-BHC	NL			NT	ND	N
Heptachlor Epoxide	0.07	0.6	ND	NT	ND	N
gamma-Chlordane	2	16	ND	NT	ND	N
alpha-Chlordane	2	16	ND	NT	ND	N
4.4'-DDE	2	- SEX SECURISION OF THE PARTY O	0.0022 J	NT	ND	N
Endosulfan I	47		ND	NT	ND	N
Dieldrin	0.04		ND	NT	ND	N
Endrin	2		ND	NT	ND	N
4.4'-DDD			ND	NT	ND	N
	47			NT	ND	N
Endosulfan II		20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	NT.	ND	N
4.4'-DDT	39	200 To 100 To		NT	ND	N
Methoxychlor	47	233500 National Confession		NT	ND	N
Endosulfan sulfate PCB Aroclor 1248	0.3	THE RESERVE AND PARTY.		NT	ND	N

(UNRESTRICTED USE)

SUMMARY OF SO LS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

Location Identification	URS for	URS for	SS-1	SS-2	SS-3	SS-4
Sample Depth (feet)	Unrestricted	Restricted				
Sampling Date (mo/d/yr)	Use, Non-	Use, Non-	9/4/01	9/4/01	9/4/01	9/4/01
Matrix	critical Water	critical Water	Sludge	Sludge	Sludge	Sludge
Sample Type	Resource	Resource	Composite	Composite	Composite	Composite
Units		Area (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg
TCL SEMIVOLATILE COMP						
Benzaldehyde	780	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS N	NT	NT	NT	NT
Acetophenone	780	5,000	NT	NT	NT	NT
Naphthalene	160	4,100	NT	NT	NT	NT
2-Methylnaphthalene	160	4,100	NT	NT	NT	NT
1.1'-Biphenyl	390	5,000	NT	NT	NT	NT
Acenaphthylene	NL	NL	NT	NT	NT	NT
Acenaphthene	470	5,000	NT	NT	NT	NT
Dibenzofuran	31	820	NT	NT	NT	. NT
Fluorene	310	5,000	NT	NT	NT	NT
Phenanthrene	1,000	5,000	NT	NT	NT	NT
Anthracene	1,000	5,000	NT	NT	NT	NT
Carbazole	32	290	NT	NT	NT	NT
Fluoranthene	310	5,000	NT	NT	NT	NT
Pyrene	230		NT	NT	NT	NT
Benzo(a)anthracene	0.9	19 6	NT	NT	NT	NT
bis (2-ethylhexyl) phthalate	46	410	NT	NT	NT	NT
Chrysene	87	780	NT	NT	NT	NT
Benzo(b)fluoranthene	0.9	8	NT	NT	NT	NT
Benzo(a)pyrene	0.09	0.8	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	0.9	8	NT	NT	NT	NT
Dibenz(a,h)anthracene	0.09	0.8	NT	NT	NT	NT
Benzo(g,h,i)perylene	NL	. NL	NT	NT	NT	NT
Total Estimated TICs	NL	NL.				
TCL VOLATILE COMPOUN	DS					
Methyl acetate	1,000	5,000	NT	NT	NT	NT
Cyclohexane	1000		NT	NT	NT	N
Benzene	0.8	200	NT	NT	NT	N
Methylcyclohexane	NL	_ NE	NT	NT	NT	N
Toluene	650	5,000	NT	NT	NT	NT
Ethylbenzene	400	5,000	NT	NT	NT	N7
Xviene (total)	420		NT	NT	NT	NT
Styrene (total)	1.000		NT	NT	NT	N7
Isopropvibenzene	NL		NT	NT	NT	N ⁻
Total Estimated TICs	NL NL	NI NI	NT	NT	NT	N7

(UNRESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

FORMER DRAPER KING COLE VEGETABLE CANNERY SITE MILTON, DELAWARE

Location Identification	I URS for	URS for	SB-20A	SB-21	HA-5A	HA-GP-7A
Sample Depth (feet)	Unrestricted	Restricted	0-0.5	0-1.2	5.0-5.5	1.0-1.5
Sampling Date (mo/d/yr)	Use. Non-	Use, Non-	9/5/01	9/4/01	9/5/01	9/5/01
Matrix	critical Water	critical Water	Soil	Soil	Soil	Soil
Sample Type	Resource	Resource	Grab	Grab	Grab	Grab
Units	Area (mg/kg)	Area (mg/kg)	ma/kg	mg/kg	mg/kg	mg/kg
TCL SEMIVOLATILE COMP	OUNDS					
Benzaldehyde	780	5,000	ND	NT	ND	ND
Acetophenone	780	5,000	ND	NT	ND	ND
Naphthalene	160	4,100	ND	NT	ND	ND
2-Methylnaphthalene	160	4,100	0.063 J	NT	ND	ND
1,1'-Biphenyl	390	5,000	ND	NT	ND	ND
Acenaphthylene	NL	NL	ND	NT	ND	ND
Acenaphthene	470	5,000	ND	NT	ND	ND
Dibenzofuran	31	820	ND	NT	ND	ND
Fluorene	310	5,000	ND	NT	ND	ND
Phenanthrene	1,000	5,000	0.052 J	NT	ND	ND
Anthracene	1,000	5,000	ND	NT	ND	ND
Carbazole	32	290	ND	NT	ND	ND
Fluoranthene	310	5,000	ND	NT	ND	ND
Pyrene	230	5,000	ND	NT	ND	ND
Benzo(a)anthracene	0.9	8	ND	NT	ND	ND
bis (2-ethylhexyl) phthalate	46	410	0.096 J	NT	ND	ND
Chrysene	87	780	ND	NT	ND	ND
Benzo(b)fluoranthene	0.9	8	ND	NT	ND	ND
Benzo(a)pyrene	0.09	0.8	ND	NT	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	8	ND	NT	ND	ND
Dibenz(a,h)anthracene	0.09	0.8	ND	NT	ND	ND
Benzo(g,h,i)perylene	NL	NL.	ND	NT	ND	ND
Total Estimated TICs	NL.	NZ .	2.367		0.236	3.776 J
TCL VOLATILE COMPOUN	DS					
Methyl acetate	1,000	5,000	NT	NT	NT	NT
Cyclohexane	1000*	500 0 *	NT	NT	NT	NT
Benzene	0.8		NT	NT	NT	NT
Methylcyclohexane	NL	NL	NT	NT	NT	NT
Toluene	650		NT	NT	NT	NT
Ethylbenzene	400		NT	NT	NT	NT
Xylene (total)	420		NT	NT	NT	NT
Styrene	1,000	5,000	NT	NT	NT	NT
Isopropylbenzene	NL		NT	NT	NT	NT
Total Estimated TICs	NL NL	NIZ	NT	NT	NT	NT

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

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(RESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

			0-000	000				
aboratory I D	Unrestricted	Restricted						
Sample Denth (feet)	Lise Non-	Use Non-	14-14.5	14-14.2	1-2.2	7.0-14.0	11.0-11.5	17-20
Sample Deput (leet)	critical Water	critical Water	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01
mpling Date (morayi)	Cilical water	Doggingo	Soil	Soil	Soil	Soil	Soil	Soil
Matrix	Kesonice	Resource	der	Grah	Grah	Grah	Grab	Grab
Sample Type	Area (mg/kg)	Area (mg/kg)	Cian	malka	mo/ka	mo/ko	ma/ka	ma/ka
Units		-	- Surfill	Bushing 4.4	03.0	7 5.4	7 54	10.6
Moisture (percent)			4 40	+ IV	2.0	7	LZ	7.61
pH (standard units)			1.49		4			
TAL METALS				100	0030	0 170	FIN	3 700
Aluminum	7,800	300,000	4,780	Z	3,530	3,170		- 1
Antimony	3	82	QN	IN	QN	QN	LN	QN
and the second	11		GN	Z	1.5	QN	IN	ON
Albeino	KKO	14 000	101	LN	34.6	6.5	LN	9.3
Barium	000		10.1	114	0.10	0 11	LN	76.0
Beryllium	10	41.6	0.13	Z	0.13		FIN	ON
Cadmium	4		QN	Z	ON	QN .	2	ON CON
Calcium	NF	艺	197	N	391	115	Z	230
Chromium	270**	6101	3.2	IN	3.0	2.9	LN	2.6
	470		CN	L		0.54	IN	0.78
Cobalt	040		2.4	TIN	3.7	1 9	L	1.8 8
Copper	310		4 040	TM	2 480	1 060	IN	1.550
Iron	2,300		1,010		7,400	000'	TIA	00
Lead	400		2.1	Z	6.7	2.3		6.3
Magnesium	NF		131	LZ	270	60.5	LN	60.1
Manganese	160		5.8	NT	26.7	2.9	IN	4.2
Marchin	10		QN	TN	QN	QN	IN	QN
Nictor	160	· · · · · · · · · · · · · · · · · · ·	2.4	L	1.9	2.6	IN	2.5
NO.	IN		170	IN	158	107	IN	86.8
Lotassiani	30		CIN	L	CN	CN	N	QN
Selenium	000		GIV ON	FN	CN	CN	LN	QN
Silver	60		460	TIM		CIN	IN	CN
Sodium	INF		2	TIM		CN	FN	QN .
Thallium	18			2		0.00	FIX	23.3
Vanadium	55			2	9.9	0.01		2.0.7
Zinc	2,300	61,000	5.9	LN	16.9	4.5	Z	0.7
TotalCvanide	160***		QN	IN	QN	QN	LN .	QN
rci Pesticines / Pol YCHI		HEN	3s)					
BHC (Lindone)		7	QN	IN	QN	QN	TN	QN
dallina-bito (cindano)	0.4	6.		TN	QN	QN	TN	QN
a-bric	IN			LN	CN	CN	IN	GN
delta-bric	700			TN	0.0013 1	CN	L	0.014.1
Heptachlor Epoxide	0.07		ON		0.00.0	Q.	114	
gamma-Chlordane	2	(I)	QN	L	ON	QN .	2	ON S
alpha-Chlordane	2	16	QN	LN	QN	QN	Z	ON
4.4'-DDE	2		QN	IN	0.021	QN	LN	QN
Endosulfan I	47		GN	IN	QN	QN	N	QN
Dialdrin	0.04	0.0	QN	N	QN	QN	IN	QN
Endrin	2		GN	IN	QN	QN	Z	QN
4.000	3	26	CN	Z	0.018	QN	N	QN
Endosulfan II	47	1	QN	Z	QN	QN	N	QN
4 4. DOT	6	4	CN	Z	0.002 J	QN	LN	QN
Matheworkler	39	1000	CN	Z	QN	QN	IN	GN
Fodosulfan sulfala	47	1200	QN	Z	QN	QN	LN	QN
COD Acceler 1240	0.3		CN	Z	0.082	QN	L	QN
A Dressess of the same		-			1000			

(RESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

Laboratory I.D. Sample Depth (feet)			20-00	2B-11	3D-11	30-43	24 00	
sample Depth (feet)	Unrestricted	Restricted					440450	0000
	Use, Non-	Use, Non-	18-18.5	13.5	13.0-14.0	14.8-15	14.0-15.0	2.0-3.0
Sampling Date (mo/d/vr)	critical Water	critical Water	9/4/01	9/5/01	9/5/01	9/5/01	10/2/6	10/2/6
Matrix	Resource	Resource	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type	Area (mq/kq)	Area (mg/kg)	Grab	Grab	Grab	Grab	Grab	Grab
Units	5		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Maisture (percent)			10.6	6.73	6.73	8.29	8.29	16.7
off (standard units)			IN	LN	IN	LV.	Z	Z
TAL METALS								2014
Alimina	7.800	200,000	N	IN	LN	LN	N	Z
	3	Management 82	TN	TN	IN	LN	LN	IN
Antimony	11	:	TN	LN	LN.	LN	IN	IN
Arsenic	033		FN	TN	Z	TN	LN	IN
Barium	ncc		2 5	FIA	FIN	TN	Z	IN
Beryllium	16		Z	2 5		- N	FZ	Z
Cadmium	4		IN	Z	2			FIN
Calcium	NF	Ę	IN	LN	Z	Z		- N
Chromium	270**	e10	IN	IN	LN	LN	Z	Z
Chall	470		N.	N	IN	IN	IN	Z
1	310		Z	N	IN	Ä	IN	LN
Copper v	2 300		Z	IN	IN	N	LN	LN
	400		Z	Z	TN	N	IN	IN
Leau	IN		IN	LN	IN	N	IN	LN N
Magnesian	160		N	N	LN	TN	IN	IN
Mariganese	10		IN.	IN	LN	TN	IN	IN
Nickel	160		-N	IN	IN	TN	IN	IN
Dotacium	NF	Z	N	N	TN	IN	Z	LN L
Selection	39		IN	LN	TN	IN	IN	L
Silver	39	1,000	IN	IN	IN	IN.	N	-N
L L	NF	N	IN	LN	IN	L	Z	Z
	18	220		LN.	LN	LN .	Z	Z !
	55	1,400		IN	LN	IN	Z	L I
	2,300	61,000	IN	IN	TN	LN	Z	Z
Cvanide	160***	4100***	IN	ĽΝ	TN	IN	N	LN.
DES / POLYCE	HORINATED BI	PHENYLS (PC						
gamma_BHC (Lindane)	0.5	4	Z	LN L	IN	TN	IN	IN
Bata BHC	0.4	G	N	LN	IN	IN	LN.	TN
della BHC	N	-	IN	LN	IN	IN	ΙΝ	IN
Toological Cookide	0.07	9.0	IN	N	N	IN	IN	IN
nepiacinoi Epoxido	2		IN	LN	N	IN	LN.	Z
aloka-Chlordana	2	91	Z	TN	N	IN	LN	Z
4 4'-DDF	2	-	IN	LN	IN	IN	LN	Z
Fodosilfan I	47		LN	IN	IN	LN	IN	Z
Dieldrin	0.04		LN	IN	IN	IN	LN	LZ.
Fodgio		61	LN LN	N	TN	N	IN	Z
4 4'-DDD	3		IN	IN	IN	LN	N	Z
Endosulfan II	47	1200	IN	IN	LN	Z	N	Z
4,4'-DDT		17	IN	LN	LN	LZ	Z	LN
Methoxychlor	39	1000	IN	LN	IN	LN	LN	Z
Endosulfan sulfate	47	Total Street	IN	LN N	IN	Z	N	Z
PCB Aroclor 1248	0.3	8	TN	LN	LN	LN	Z	Z
PCB Aroclor 1254	0.:	8	IN	N	LN.	Z	Z	Z

TABLE 6

(RESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

Location Identification	URS for	URS for	SB-8	SB-8	SB-9	SB-9	SB-9	SB-10
Sample Depth (feet)	Unrestricted	Restricted	14-14.5	14-14.2	1-2.2	7.0-14.0	11.0-11.5	17-20
Sampling Date (mo/d/vr)	Use. Non-	Use, Non-	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01
Matrix	critical Water	critical Water	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type	Resource	Resource	Grab	Grab	Grab	Grab	Grab	Grab
Units	Area (mg/kg)	Area (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TCL SEMIVOLATILE COMPOU	SUNDS							
Benzaldehyde	780	5,000	QN	TN	QN	QN	N	QN
Acetophenone	780	5,000	QN	IN	QN	QN	IN	QN
Nanhthalene	160	4,100	5.7 J	IN	QN	51.0	IN	41
2-Methylnaphthalene	160	4.100	26.0	Z	QN	71.0	IN	140
1 1'-Biohenyl	390	5,000	1.3 J	IN	QN	3.5 J	IN	8.1 J
Acenaohthylene	NF	ź	QN	IN	QN	QN	N	2.5 J
Acenaphthene	470	5,000	2.2 J	, LN	QN	5.1 J	IN	12
Dibenzofuran	31	820	QN	IN	QN	QN	N	ON
Fluorene	310	5,000	2.6 J	LN	ON	4.4 J	IN	13
Phenanthrene	1,000	5,000	9.1 J	TN	ON	17.0	NT	54 J
Anthracene	1,000	5,000	QN	TN	ON	2.4 J	N	7.3 J
Carbazole	32	280	QN	TN	ON	QN	IN	3.4 J
Fluoranthene	310	5,000	ON	IN	QN	1.6 J	LN	5.7 J
Pyrene	230	5,000	4.7 J	IN	QN	5.6 J	N	15 J
Benzo(a)anthracene	0.0	63.	2.0 J	IN	QN	3.5 J	N	14.0
bis (2-ethylhexyl) phthalate	46	410	QN	TN	QN	GN	Z	GN
Chrysene	87	780	2.4 J	TN	QN	3.9 J	IN	20
Benzo(b)fluoranthene	0.0	83	QN	TN	QN	QN	N	5.0
Benzo(a)pyrene	0.09	9.6	1.8	TN	QN	2.0	Z	12.0
Indeno(1,2,3-cd)pyrene	0.0	***	QN	TN	QN	QN	N	2.7 J
Dibenz(a,h)anthracene	0.09	9.6	QN	TN	QN	GN	N	2.7
Benzo(g,h,i)perylene	NL	¥	1.7 J	LN	QN	QN	L	11.0 J
Total Estimated TICs	NF	ŧ	393.3 J		1.9 J	644 J		1380 J
TCL VOLATILE COMPOUNDS								
Methyl acetate	1,000	5,000	TN.	0.12 J	0.2 J	IN	QN	Z
Cyclohexane	1000*	\$000\$	IN	0.084 J	QN	TN	QN	Z
Benzene	0.8	200	IN	QN	QN	IN	0.35 J	Z
Methylcyclohexane	NF	¥	IN	0.21 J	QN	IN	QN	LN
Toluene	650	5,000	IN	QN	QN	IN	J.4 J	Z
Ethylbenzene	400	5,000	LN	QN	QN	TN	3.8	Z
Xylene (total)	420	5,000	IN	QN	QN	IN	12	IN
Styrene	1,000	5,000	IN	QN	QN	TN	0.55 J	Z
Isopropylbenzene	NF	Z	TN	QN	ON	TN	0.73 J	IN
Total Estimated TICs	NF	1	N	89.2 J	QN	IN	542.2 J	N

(RESTRICTED USE)

SUMMARY OF SOILS / SOLIDS SAMPLE HSCA LABORATORY ANALYSIS RESULTS, PRELIMINARY EVALUATION

action Identification	I IRS for	LIRS for	SB-10	SB-11	SB-11	SB-25	C7-GC	27-00
THOU IDENTIFICATION	Proctricted	Restricted	18-18.5	13.5	13.0-14.0	14.8-15	14.0-15.0	2.6-3.0
Sample Depth (leet)	Ulifestificed	lise Non-	9/4/01	9/5/01	9/5/01	9/5/01	9/5/01	9/5/01
Sampling Date (mo/d/yr)	oritical Mater	critical Water	Soil	Soil	Soil	Soil	Soil	Soil
Matrix	Cilical water	Possinge	Grah	Grah	Grab	Grab	Grab	Grab
Sample Type	Area (mo/kg)	Area (mg/kg)	ma/kg	mg/kg	mg/kg	mg/kg	nıg/kg	mg/kg
SEMIVOLATILE COMPC				X				
	780	5,000	IN	IN	QN	LN	QN	GN
zaluenyue	780	5,000		IN	QN	IN	QN	QN
Acetophenone	160	4.100		IN	QN	IN	QN	GN
Naphthalene	160	001.7		IN	QN	IN	QN	ON
2-Methylnaphthalene	200	900		Z	QN	LN	QN	GN
,1'-Biphenyl	390			-	QN	Z	QN	QN
Acenaphthylene	470	5,000		Z	QN	N	QN	GN
Acenaphthene	34			- In		IN	GN	QN
Dibenzoturan	240	200		- Z	QN	IN	QN	GN
Fluorene	1 000	2 000		N	QN	IN	QN	ON
Phenanthrene	1,000	2000		Z		LN.	QN	ON
Anthracene	32	290		IN	QN	IN	QN	QN
Carbazole	310	5,000		N	QN	N	ON	QN
riuorammene	230	5,000		N	QN	IN	ON	QN
Regretatenthracene	0.0			IN	QN	IN	QN	QN
bis (2-ethylhexyl) obthalate	46		LN	LN	QN	FN	QN	QN
Chrysph	87	780	LN	IN	QN	Z	QN	QN
Bearo(b)(lineauthene	0.0		IN	TN .	QN	Z	QN	QN
Benzo(alovrene	0.00			IN	QN	IN	QN	QN
co(a)pyrene	6.0		IN	IN	QN	N	GN	GN
Diboga(a blanthracene	0.00	90		LN	QN	IN	QN	QN
Benzola h iberylene	Z		IN	L	QN	Į	QN	QN
Fotal Estimated TICs	NF				0.371 J		0.12 J	34.07 J
APOUN	SC							
Methyl acetate	1,000	5,000	QN	QN	LN	QN	Z	QN
Cyclobexape	1000*	5000	0.82 J	QN	N	QN	Z	2.3
Doggood	0.8		L 6.0	QN	TN NT	QN	Z	QN
Mathylovolohaxana	NF	N	2.6	GN	TN	QN	N	24.0
Vieuryicyclonics	650		L 79.0	QN	IN	QN	Z	QN
Ethylbenzene	400		4.3	GN	IN	QN		1.0 J
Xulono (total)	420		23.0	QN	TN	QN	Z	QN
Styrone	1.000	5,000	GN	QN	IN	QN		QN
Sopronyhenzene	NF		1.1	QN	IN	QN	IN	2.4
isopiopy inclination			-	-	1	CIN	FIA	2003

(UNRESTRICTED USE) SUMMARY OF SOIL COCS, PRELIMINARY EVALUATION

FORMER DRAPER KING COLE VEGETABLE CANNERY SITE MILTON, DELAWARE

1	URS IOI	DEFAULI	55-1	SS-2	SS-3	SS-4
Sample Depth (feet)	Unrestricted	BACKGROUND				
Sampling Date (mo/d/vr)	Use. Non-	STANDARDS	9/4/01	9/4/01	9/4/01	9/4/01
	critical Water	(mg/kg)	Sludge	Sludge	Sludge	Sludge
Sample Type	Resource		Composite	Composite	Composite	Composite
	Area (mq/kq)		mg/kg	mg/kg	mg/kg	mg/kg
Moisture (percent)			32.4	35.1	77.4	78
pH (standard units)	1		7.32	7.4	7.16	7.45
ral metals						
	7,800	7,800	2,730	3,620	12,800	10,400
		90				27.25 ND
		•				8.7
	310	50		105	234	190
	2.300	2,300	8	4.170	12.200	9,970
	400			16.2	26.9	. 28.6
	99		16.1	34.4	41.3	80
'CL PESTICIDES / POLYCHL		ORINATED BIPHENYLS (PCBs)				
	0.04			0.0041 J	ON 20.0	0.047
PCB Aroclor 1254	80		0,485 ND	0.1	ON 20	0.75 ND
PCB Aroclor 1260	0.3			0.0		ON 32.0
TCL SEMIVOLATILE COMPOU	SUNC					
a)anthracene	6.0		LN	N	Z	LN
uoranthene	6.0		LN	LN	LN	IN
ovrene	0.09		LN	LN	LN	LN
.3-cd)pyrene	60		L	Z	Z	N
a.h)anthracene	60'0		LN	Z	LZ .	LN
ed 7	를	N.	LN	L	LN	Z
TCL VOLATILE COMPOUNDS						
Benzane	8,0	ž	TN	IN	TN	TN
Total Estimated TICs	N		TIN	LIV	TIV	TIV

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Vegetable Cannery," and should be viewed in that context. Refer to 1 abbreviations, references, and other notations.

TABLE 7 (UNRESTRICTÉD USE) SUMMARY OF SOIL COCS, PRELIMINARY EVALUATION

FORMER DRAPER KING COLE VEGETABLE CANNERY SITE MILTON, DELAWARE

cotton dontification	SS for	DEFAUL	SD-ZUA	3D-7-	くつこくこ	
Comple Dooth (foot)	1 Inrestricted	BACKGROUND	0-0.5	0-1.2	5.0-5.5	1.0-1.5
Sample Deptil (leet)	Ullestricted	STANDARDS	9/5/01	9/4/01	9/5/01	9/5/01
Marix	critical Water	(ma/ka)	Soil	Soil	Soil	Soil
Cample Type	Resource		Grab	Grab	Grab	Grab
Dailpie Type	Area (mg/kg)		mg/kg	mg/kg	mg/kg	mg/kg
Moisture (percent)	Superior Sup		10.6	15.1	12.4	9.87
Moisture (percent)	T		8.5	LN	6.32	7.37
AI METAI S						
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	7.800	7.800	2.050	6,180	0/9	2,710
	S		GN 29	ON 9.0	0.55 ND	O.55 ND
	Ξ.		3.0 L	3.0	0.36 ND	0.355 ND
	340		12.6	18.3	2.4 B	4.18
	2.300	2.300	4.950	5,440	3,030	1,690
			8.8	24.0	3.8	10
	55	2	12.3	18.1	8.3	3.3
CL PESTICIDES / POLYCHL		ORINATED BIPHENYLS (PCBs)				
leldrin	0.04		0.00185 ND	TN	0.00019 ND	0.00185 ND
CB Aroclor 1254	0. 3	. Z	0.062	LN	ON 0100	0.0185 ND
ace Aroclor 1260	0.3		0.0185 ND	LN	0.019 ND	0.0185 ND
TCL SEMIVOLATILE COMPOL	NDS					
Benzo(a)anthracene			0.185 ND	TN	0.19 ND	0.185 ND
Benzo(b)fluoranthene	60		0.185 ND	TN	0.19 ND	0.185 ND
enzo(a)nvrane	60.0		0/185 ND	LN	0.19 ND	0,185 ND
denoid 2 3-collovrene	6.0			LN	0.19 ND	0.185 ND
benz(a.h)anthracene	60'0	Z		LN	ON 61.0	0.185 ND
Est				IN	322 J	3776 J
TCL VOLATILE COMPOUNDS	S					
Benzene	D.8	N	TN	TN	TN	N
			114	TIA	TIA	TIA

TABLE 7

(RESTRICTED USE) SUMMARY OF SOIL COCs, PRELIMINARY EVALUATION

28-10	18-18.5	9/4/01	Soil	Grab	mg/kg	10.6	TN		IN	N	IN	IN	LN LN	LN	N		LN.	LN	Ä		IN	IN	L	LN	N	IN	The state of the s	C 60	635.6
SB-10	17-20	9/4/01	Soil	Grab	mg/kg	10.6	7.61		3,790	ON 59.9	0.355 ND	1.8 B	1,550	2.9	23.3		0.11 ND	ON L'L	ON L'I		14.0	€ 0.5	12.0	2,7	2,7	1380 J		IN	TN
SB-9	11.0-11.5	9/4/01	Soil	Grab	mq/kg	7.54	TN		IN	LN	TN	TN	TN	TN	LN		TN	IN	TN		TN	TN	IN	IN	IN	TN		0.35 J	542.2 J
SB-9	7.0-14.0	9/4/01	Soil	Grah	ma/ka	7.54	7		3,170	6.5 ND	0.345 ND	1.9 B	1,060	2.3	15.0		ON 1110	1.1 ND	1.1 ND		3,5	ON 6.6	2.0	ON S.S	ON 5.5	644 J		- N	TN
SB-9	1-2.2	9/4/01	Soil	Grah	ma/ka	8.69	7.4		3,530	ON 55.8	1.5	3.7 B	2,480	7.3	6.6		0.0018 ND	0.092	0.018 ND		0.18 ND	0.18 ND	0.18 ND	0.18 ND	ON BLO	1.9 J		0.255 ND	GN
SB-8	14-14 2	9/4/01	Soil	Cop	Olab ma/ka	14	N N		LZ.	IN	IN	TN	LN	IN	LN		IN	-N	LN		IN	Z	LN	LN	TN	LN		0.275 ND	89.2 J
SB-8	14-14 5	0/4/04	Soil	2001	Grab	111g/kg 1.4	7.49		4 780	ON 08	50	2.4 B	1.010	2.7	14.2		ON 3110	CN	ON G		2.0]	ON OU	6.		ON O'S	393.3 J		-N	Į.
DEFAULT	- UNITOD DATE	SACRGROUND -	- CONMUNIC	(mg/kg)	1	1	1		7 800			- G	00%	44		ENVIS (PCBs)	IN		!=		IN					뉟		IN	
1 IBS for			Use, Non-	critical Water	Resource	Area (mg/kg)	T		7 900	กลับ เ		<u>-</u> ;) (ODINIATED RIPH	AO O		2 6 6							7	S	0.8	Z
4	Location Identification	Sample Depth (feet)	Sampling Date (mo/d/yr)	Matrix	Sample Type	Units	Moisture (percent)	pH (standard units)	TAL METALS	Mhuimi	nilmony	rrsenic	. jaddor	·uo		Validujujii	PESTICIDES / FOLICIT		PCB Arocior 1234 PCB Arocior 1260	TOP CHANGE ATHE COMBOLINDS	SEMINOLATILE COMP.	senzo(a)anun acente	rzo(p)ripordinimene	enzolajpyrene	eno(1,4,3-ca)pyrene eno(1,4)arthracene	Intellizioni/allililiandila Total Estimated TICs	TCI VOI ATILE COMPOUNDS		Delikelie Total Estimated TICs

TABLE 7

(RESTRICTED USE) SUMMARY OF SOIL COCs, PRELIMINARY EVALUATION

Location Identification	URS for Unrestricted	DEFAULT BACKGROUND	13.5	SB-11 13.0-14.0	5B-25 14.8-15	+-	3B-23 14.0-15.0
Sample Depth (feet)	Ulse Non-	STANDARDS	9/5/01	9/5/01	9/5/01		9/5/01
Matrix	critical Water	(ma/ka)	Soil	Soil	Soil		Soil
Sample Tune	Resource		Grab	Grab	Grab	Ğ	Grab
Sample Type	Area (ma/kg)		mg/kg	mg/kg	mg/kg	mg/kg	kg
Office (constant)	16.6.1		6.73	6.73	8.29		8.29
Moisture (percent)			IN	LN	IN		N
pri (statingly dims)							
I AL METALS	7 800		TN	IN	IN		N
			IN	LN	IN		NT
Allimony	٠ -		TN	IN	LN		N
Arsenic	340		LN	LN	L		N
	2300		N	IN	LN		LN
	007		IN	TN	IN		IN
Pean Pean Pean Pean Pean Pean Pean Pean		~	LN	IN	IN		N
TCI PESTICIDES / POLYCHLOR		HENYLS (P					
Dieldrin		N	LN	TN	IN		N
PCB Aroclor 1254	0.3		TN	IN	TN		Z
PCB Aroclor 1260	0,3	. 	N	TN	L		N
TCI SEMIVOLATILE COMPOUN	DS						
Benzolalanthracene		· · · · · · · · · · · · · · · · · · ·	LN	0.175 ND	LN	0.1	0.18 ND
Benzo(b)fluoranthene			LN	0.175 ND	IN	0.1	0.18 ND
Benzo(a)nvrene	0.09		LN	0,175 ND	TN	0.1	0.18 ND
	60		IN	0.175 ND	IN	0.1	0.18 ND
Dibenzia hlanthracene	60°0		IN	O.175 ND	IN	0.1	0.18 ND
ated T		Ź	TN	0.371 J	IN	0.	0.12 J
TCI VOI ATII E COMPOUNDS	DS						
Banzana	0.8	IN	0.27 ND	IN	0.28 ND		N
Alladia			CN	IN	QN		IN

(UNRESTRICTED USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

ocation Identification	URS for	URS for	SB 2-1	HS 2-3	HS 2-4
Sample Depth (feet)	Unrestricted	Restricted	0.0-5.5	0.0-0.3	0.0-0.2
Sampling Date (mo/d/yr)	Use, Non-	Use, Non-	6/19/02	6/19/02	6/19/02
Matrix	_	critical Water	Soil	Soil	Soil
Sample Type	Resource	Resource	Grab	Grab	Grab
Jnits	Area (mg/kg)	Area (mg/kg)	mg/kg	mg/kg	mg/kg 2.55
Moisture (percent)			4.24 NT	2.97	2.55 NT
oH (standard units)			141	NT	141
TAL METALS		000 000	0.212		0.070
Aluminum	7,800	200,000	2,640	2,770	2,370
Antimony	3	82	ND	2.4 B	ND
Arsenic	11	11	7.2	3.8	2.8
Barium	550		40.5 B	62.2	39.4 B
Beryllium	16	410	0.036 B	0.22 B	0.26 B
Cadmium	4	100	ND	0.8 B	0.13 B
Calcium	NL	, , , NL	1,550	4,460	4,260
Chromium	270**	610**	9.2	14.7	9
Cobalt	470	12,000	2.5 B	2.6 B	2 B
Copper	310	8,200	14.6	61.8	24
Iron	2,300	· 在1000000000000000000000000000000000000	8,230	12,300	5,720
Lead	400	CONTRACTOR	7.7	2,880	14.6
Magnesium	NL	NL	558 B	1,520	1,230
Manganese	160	4,100	61.3	109	66.4
	10		ND	0.036 B	NC
Mercury	160	国际的国际国际国际	9.5	30.2	7.2 B
Nickel	NL NL	NL	340 B	286 B	275 B
Potassium	39		ND ND	0.98 B	NE
Selenium	39		ND	0.96 B	NE
Silver			62 B	64.5 B	71.8 B
Sodium	NL 10			04.5 B ND	71.6 B
Thallium	18			80.9	11.9
Vanadium	55			1,030	87.8
Zinc	2,300				NC
Total Cyanide	160			ND	INL
TCL PESTICIDES / POLY	CHLORINATE				
Alpha-BHC	0.1	0.9 4	NT	NT	N7
gamma-BHC (Lindane)	0.5			NT	N7
beta-BHC	0.4	3	NT	NT	N7
delta-BHC	NL	NIC		NT	N7
Heptachlor	0.1		NT	NT	N7
Aldrin	0.04			NT	N
Heptachlor Epoxide	0.07			NT	N
gamma-Chlordane	2			NT	N7
alpha-Chiordane	2			NT	N
4.4'-DDE	2	17	NT	NT	N.
Endosulfan I	47			NT	N.
Dieldrin	0.04	0.4	NT	NT	N.
Endrin		61	NT	NT	N.
4,4'-DDD	3	24	NT	NT	N'
Endosulfan II	47		NT	NT	N'
4.4'-DDT		17		NT	N'
Methoxychlor	39			NT	N.
Endrin Ketone	NL	一致超過過過大型四甲甲		NT	- • N
Endosulfan sulfate	47	- TOTAL STREET, STREET		NT	N'
	0.3			NT	N.
PCB Aroclor 1254					

(UNRESTRICTED USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

FORMER DRAPER KING COLE CANNERY MILTON, DELAWARE

ocation Identification	URS for	URS for	SB 2-1	HS 2-3	HS 2-4
Sample Depth (feet)	Unrestricted	Restricted	0.0-5.5	0.0-0.3	0.0-0.2
Sampling Date (mo/d/yr)	Use, Non-	Use, Non-	6/19/02	6/19/02	6/19/02
Matrix	critical Water	critical Water	Soil	Soil	Soil
Sample Type	Resource	Resource	Grab	Grab	Grab
Jnits	Area (mg/kg)	Area (mg/kg)	mg/kg	mg/kg	mg/kg
Moisture (percent)			4.24	2.97	2.55
H (standard units)			NT	NT	NT
TCL SEMIVOLATILE ORGA	ANIC COMPO	UNDS			
Phenol	1,000	5,000	NT	NT	NT
2-Chiorophenol	39	1,000	NT	NT	NT
1-Methylphenol	39	5,000	NT	NT	NT
N-Nitroso-di-n-propylamine	NL	NL		NT	NT
Naphthalene	160	4,100	NT	NT	NT
4-Chloro-3-methylphenol	NL	NL		NT	NT
2-Methylnaphthalene	160	4,100	NT	NT	NT
1,1'-Biphenyl	390	5,000	NT	NT	NT
Acenaphthylene	NL	- NL	NT	NT	NT
	470	5,000		NT	NT
Acenaphthene	63	THE RESERVE OF THE PERSON NAMED IN		NT	NT
4-Nitrophenol	31	820		NT	N7
Dibenzofuran	16			NT	N7
2,4-Dinitrotoluene		一個的語言的影響的		NT	N7
Fluorene	310			NT	N7
N-Nitrosodiphenylamine	130			NT	N7
Pentachlorophenol	5	包括《图记》 在1000年的			N7
Phenanthrene	1,000			NT	N7
Anthracene	1,000	- THE STREET PROPERTY AND ADDRESS OF THE PARTY OF THE PAR		NT	N N
Carbazole	32			NT	
Fluoranthene	310			NT	N7
Pyrene	230		·	NT	N
Butylbenzylphthalate	930			NT	N1
Benzo(a)anthracene	0.9	8	NT	NT	N7
bis (2-ethylhexyl) phthalate	46	410	NT	NT	N'
Chrysene	87	780	NT	NT	N
Benzo(b)fluoranthene	0.9	T - 8	NT	NT	N7
Benzo(a)pyrene	0.09	0.8	NT	NT	N7
	0.9		NT	NT	N
Indeno(1,2,3-cd)pyrene	0.09	THE RESIDENCE OF THE PARTY OF T		NT	N.
Dibenz(a,h)anthracene	NI NI			NT	N.
Benzo(g,h,i)perylene	78			NT	N.
Benzaldehyde	1,000			NT	N.
Caprolactam	NL NL			NT	N'
Total Estimated TICs		THE RESERVE OF THE PARTY OF THE	- 11		
TCL VOLATILE ORGANIC			NT NT	NT	N N
Acetone	780				N
Methyl Acetate	1,000		(*)	NT NT	N
Cyclohexane	1,000				N N
Benzene	0.8	20			N N
Methylcyclohexane		L N			N N
Toluene	65				N
Chlorobenzene	130	4,10			l N
Ethylbenzene	40	<u>5,00</u>			N N
Xylene		0 5,00 N	V		N N
Isopropyibenzene	N		807		1 N
1,2-Dichlorobenzene		5,00			
Total Estimated TICs	N/	A N	NT NT	NT	l N

(RESTRICTED USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

				35.3.5		00.07
Location Identification	URS for	URS for	MW-1	SB 2-3	SB 2-5	SB 2-7
Sample Depth (feet)	Unrestricted	Restricted	10-11.9	14-15	0.6-1.4	6/17/02
Sampling Date (mo/d/yr)	Use, Non-	Use, Non-	6/10/02	6/17/02	6/17/02	Soil
Matrix	_	critical Water	Soil	Soil Grab	Soil Grab	Grab
Sample Type	Resource	Resource	Grab mg/kg	mg/kg	mg/kg	mg/kg
Units	Area (mg/kg)	Area (mg/kg)	6.6	8.37	7.25	12.3
Moisture (percent)	_	}	7.83	7.85	10.7	7.8
oH (standard units)			1.03	7.00	10.7	7.0
TAL METALS		hac read	2 2 2 2 2	0.050	2.000	4.410
Aluminum	7,800	200,000	3,360	3,350	3,800	
Antimony	3	82	ND	ND	ND	ND
Arsenic	11	11	ND	ND	1.3 B	ND
Barium	550	14,000	10.9 B	6.7 B	21.2 B	19.1 B
Beryllium	16	410	0.15 B	0.084 B	0.19 B	0.25 B
Cadmium	4	100	ND	ND	ND	ND
Calcium	NL	NL	160 B	107 B	2,150	175 B
Chromium	270**	610**	9.4	2.2 *	3.9 *	2.5 *
Cobalt	470	12,000	1.1 B	0.37 B	1.2 B	0.43 B
	310	8.200	1.8 B	1.5 B	4 B	2.2 B
Copper	2,300	61,000	2.290	571 *	2.740 *	1,380 *
Iron		1,000	3.4	2.2	5.5	3.6
Lead	400	1,000 NL	123 B	59 B	383 B	75.4 B
Magnesium	NL			2.6 B*	22.5 *	4.6 *
Manganese	160	4,100	17			NC NC
Mercury	10		ND	ND	ND	
Nickel	160		5.7 B	4.5 B	2.4 B	1.5 B
Potassium	NL NL	NL	129 B	74.1 B	193 B	105 B
Selenium	39	1,000	ND	ND	ND	NC
Silver	39	1,000	ND	ND	ND	NC
Sodium	NL NL	NL	ND	140 B	ND	50.5 B
Thallium	18	220	ND	ND	ND	NC
Vanadium	55	1,400	19.4	17.5	8.1 B	11.4
Zinc	2,300		7.4	3.8 B	10.5	8.4
	160		ND	ND	ND	NE
Total Cyanide TCL PESTICIDES / POL'						
NAME AND ADDRESS OF TAXABLE PARTY.		0.9	0.0047 J	0.0097 JP	ND	NE
Alpha-BHC	0.1	THE RESERVE TO SERVE THE RESERVE THE RESER	0.0047 J	0.018 JP	ND	NE
gamma-BHC (Lindane)	0.5			0.018 JP	ND	0.0054 JP
beta-BHC	0.4				ND	0.0034 31 NE
delta-BHC	NL		0.0046 JP	ND	ND ND	NE
Heptachlor	0.1		0.005 JP	ND		NE NE
Aldrin	0.04	一個問題發展的語言	ND	0.022 JP	ND	NI NI
Heptachlor Epoxide	0.07			ND	ND	
gamma-Chlordane	2			ND	ND	0.0031 JE
alpha-Chlordane	2			ND	ND	NI
4.4'-DDE	2	17	0.022 JP	0.04 JP	0.0054 J	NI
Endosulfan I	47	1200	0.0056 JP	ND	ND	N
Dieldrin .	0.04	一 经股份的 医克里氏征	ND	ND	ND	N
Endrin		61	ND	ND	ND	N
4,4'-DDD		24		ND	0.02 J	N
	47			ND	ND	N
Endosulfan II		17		ND	ND	N
4,4'-DDT				ND	ND	N
Methoxychlor	39	——2000年2000年2000年300年		0.022 JP	ND	N
Endrin Ketone	NL	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I			ND ND	N
Endosulfan sulfate	47		ND	0.033 J	ND ND	N
PCB Aroclor 1254	0.3	一名(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		ND		N
PCB Aroclor 1260	0.3		ND.	ND	ND	

(RESTRICTED USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

Location Identification	I URS for I	URS for	SB 2-8	HS 2-1	HS 2-2	T-1
Sample Deoth (feet)	Unrestricted	Restricted	14.0-14.6	0.0-0.3	0-3	16-17
Sampling Date (mo/d/yr)	Use, Non-	Use. Non-	6/17/02	6/17/02	6/17/02	8/1/02
Matrix	critical Water		Soil	Soil	Soil	Soil
Sample Type	Resource	Resource	Grab	Grab	Grab	Grab
Units	Area (mg/kg)		mg/kg	mg/kg	mg/kg	mg/kg
Moisture (percent)	7 , 5 5/	, ,	6.04	5.94	9.55	9.49
pH (standard units)	7		7.3	5.75	NT	7.43
TAL METALS						
Aluminum	7,800	200,000	4,840	NT	2,950	5,400
Antimony	3	82	ND	NT	16.4	ND
Arsenic	11	11	ND	NT	21.7	ND
Barium	550	14,000	13.2 B	NT	46.8	15.7 BE
Bervllium	16	410	0.079 B	NT	0.46 B	ND
Cadmium	4	100	ND	NT	ND	ND
Calcium	NL	NE.	254 B	NT	6,310	143 B
Chromium	270**	610**	2.5 *	NT	6.1 *	2.8
Cobalt	470	12,000	0.41 B	NT	4 B	ND
Copper	310	8,200	2.4 B	NT	1,500	1.0 BE
Iron	2,300	61,000	1,000 *	NT	23,500 -	786
Lead	400		2.9	NT	1,080	4.4
Magnesium	NL	NL	81.2 B	NT	527 B	123 B
Manganese	160	4,100	2.9 B*	NT	59.1 *	3.5
Mercury	10	610	ND	NT	0.059 B	ND
Nickel	160	4,100	1.4 B	NT	12.3	5.9 B
Potassium	NL	KIL.	100 B	NT	932 B	137 B
Selenium	39	1,000	ND	NT	1.7 N	ND
Silver	39	1,000	ND	NT	0.61 B	ND
Sodium	NL	NL	ND	NT	293 B	ND
Thallium	18	220	ND	NT	ND	ND
Vanadium	55	1,400	5.7 B	NT	11.5	27.4
Zinc	2.300	61,000	10.5	NT	42.4	9.4
Total Cyanide	160	4.100	ND	NT	ND	ND
TCL PESTICIDES / POLY						
Alpha-BHC	0.1	0.9	ND	ND	NT	0.0067 JP
gamma-BHC (Lindane)	0.5	4	ND	ND	NT	0.0045 JP
beta-BHC	0.4	3	ND	0.006 JP	NT	0.019 JBF
delta-BHC	NL NL	NE.	ND	ND	NT	0.0051 JP
Heptachlor	0.1	1	ND	ND	NT	0.017 J
Aldrin	0.04	0.3	ND	ND	NT	0.01 JP
Heptachlor Epoxide	0.07	0.6	ND	0.01 JP	NT	0.01 JP
camma-Chlordane	2	16		ND	NT	ND
alpha-Chlordane	2	16		ND	NT	0.0095 JP
4.4'-DDE	2	17		0.014 JP	NT	0.037 J
Endosulfan I	47	1200	ND	ND	NT	0.0038 JP
Dieldrin	0.04	A CONTRACTOR OF THE PARTY OF TH		0.015 JP	NT	0.043 J
Endrin	2			0.013 J	NT	0.04 JP
4.4'-DDD	3			ND	NT	0.025 JP
Endosulfan II	47	學學 使 医多环 经经营的 医多种		0.0086 JP	NT	ND
4,4'-DDT	2	17		0.066 JP	NT	0.028 JP
Methoxychlor	39	AND RESIDENCE PROPERTY OF THE PERSON NAMED IN		ND	NT	ND
Endrin Ketone	NL	NE		ND	NT	0.013 JP
Endosulfan sulfate	47	1200		ND	NT	ND
PCB Aroclor 1254	0.3	3		1.8 X	NT	ND
	0.3	ALC: NO PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	ND	ND	NT	ND
PCB Aroclor 1260	0.5					, , ,

(RESTRICTED USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

			141A/ 1	5222	SB 2-5	CD 2.7
Location Identification	URS for	URS for	MW-1 10-11.9	SB 2-3 14-15		SB 2-7 23-24
Sample Depth (feet)	Unrestricted	Restricted	6/10/02	6/17/02	0.6-1.4 6/17/02	6/17/02
Sampling Date (mo/d/yr)	Use, Non-	Use, Non-	Soil	Soil	Soil	Soil
Matrix	1	critical Water	Grab	Grab	Grab	Grab
Sample Type	Resource	Resource	mg/kg	mg/kg	mg/kg	mg/kg
Units	Area (mg/kg)	Area (mg/kg)	6.6	8.37	7.25	12.3
Moisture (percent)		l	7.83	7.85	10.7	7.8
pH (standard units) TCL SEMIVOLATILE ORG	ANIC COMPC	ILINDS				
	1,000	5.000	ND	ND	ND	ND
Phenol	39	1.000	ND ND	ND	ND	ND
2-Chlorophenol	39	5.000	ND	ND	ND	ND
4-Methylphenol	NL NL	NIL	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	160	4,100	140 D	150 D	0.48 J	ND
Naphthalene	NL NL	NL	ND	ND	ND	ND
4-Chloro-3-methylphenol	160	4,100	130 D	120 D	ND	1.2 J
2-Methylnaphthalene	390	5.000	16	14 J	ND	ND
1,1'-Biphenyl	NL NL	NE	1.5 J	2 J	ND	ND
Acenaphthylene		5,000	15	13 J	ND ND	ND
Acenaphthene	470	1,600	ND	ND ND	ND	ND
4-Nitrophenol	63	820	2.9 J	2.4 J	ND	ND
Dibenzofuran	31	建筑设施设施的	2.9 J	4.9 J	ND ND	ND
2,4-Dinitrotoluene	16	5.000	16	4.9 J	ND	0.46 J
Fluorene	310	经保险股份等级企业。但是2000	ND	15	ND	0.99 J
N-Nitrosodiphenylamine	130	- 华记代人的经验的现在分词的现在分词			ND	0.99 3 ND
Pentachlorophenol	5	一一年的1000年6月1日 1000年 1000	ND I	ND 53		2 J
Phenanthrene	1,000	一個性的人的影響的影響的	45	52	ND	ND ND
Anthracene	1,000	5,000	6.9 J	9 J	ND	
Carbazole	32		2.4 J	2.3 J	ND	ND
Fluoranthene	310		5.1 J	4.2 J	ND	ND
Pyrene	230	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	20	21	ND	1.7 J
Butylbenzylphthalate	930		ND	ND	ND	ND
Benzo(a)anthracene	0.9	8	14 J	15	ND	1 J
bis (2-ethylhexyl) phthalate	46	410	ND	ND	ND	ND
Chrysene	87	780	22	28	ND	1.8 J
Benzo(b)fluoranthene	0.9	8	3.3 J	3.9 J	ND	0.49 J
Benzo(a)pyrene	0.09	0.8	The state of the s	6.7 J	ND	0.93 J
Indeno(1,2,3-cd)pyrene	0.9	8	1.4 J	1.5 J	ND	ND
Dibenz(a,h)anthracene	0.09	0.8	1.5 J	ND	ND	ND
Benzo(g,h.i)perylene	NI	NE	3.2 J	3.1 J	ND	1.3 J
Benzaldehyde	780	5,000	2.1 J	ND	ND	ND
Caprolactam	1,000	5,000	14 J	ND	ND	ND
Total Estimated TICs	NL	NL.	2056.8 J	2390 J	663.13 J	490.2 J
TCL VOLATILE ORGANIC	COMPOUND	os				
Acetone	780		ND	ND	0.74	ND
Methyl Acetate	1.000	5,000	ND	ND	0.17 J	ND
Cyclohexane	1,000	5,000	1.7	1.2	ND	0.48 J
Benzene	0.8	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO	1.1	1.2	ND	ND
Methylcyclohexane	N	. NZ	3.7	4.4	5.6	2.5
Toluene	65	5,000	7.5	2.2	ND	ND
Chlorobenzene	130	4,100	ND	ND	0.33 J	ND ND
Ethylbenzene	40	o 5,00 0	7.2	5.7	1.8	0.47 J
Xylene	42			26	ND	0.21 J
Isopropylbenzene	NI	, M	1.6	1.2	1.7	0.72 J
1,2-Dichlorobenzene	56	5,000		· 。 ND	0.27 J	ND
Total Estimated TICs	N/	A NA	620.8 J	892 J	607 J	394.5 J

(RESTRICTÉD USE)

SUMMARY OF SOIL SAMPLE HSCA ANALYSIS RESULTS, RI

FORMER DRAPER KING COLE CANNERY MILTON, DELAWARE

Location Identification	URS for	URS for	SB 2-8	HS 2-1	HS 2-2	T-1
	Unrestricted	Restricted	14.0-14.6	0.0-0.3	0-3	16-17
Sample Depth (feet)	Use, Non-	Use Non-	6/17/02	6/17/02	6/17/02	8/1/02
Sampling Date (mo/d/yr)	critical Water		Soil	Soil	Soil	Soil
Matrix	Resource	Resource	Grab	Grab	Grab	Grab
Sample Type		Area (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg
Units	Area (mg/kg)	Alea (mg/kg)	6.04	5.94	9.55	9.49
Moisture (percent)		1	7.3	5.75	NT	7.43
pH (standard units) TCL SEMIVOLATILE ORG.	ANIC COMPO	ILINDS	The same of the sa	W. Married Company of the Parket		
	1.000	5,000	ND	NT	ND	ND
Phenol	39	1,000	ND	NT	ND	ND
2-Chlorophenol	39	5,000	ND	NT	ND	ND
4-Methylphenol	NL	NL	ND	NT	ND	ND
N-Nitroso-di-n-propylamine	160	4,100	ND	NT	0.41 J	110
Naphthalene	NL	NIL.	ND	NT	ND	ND
4-Chloro-3-methylphenol		4,100	ND	NT	0.68 J	180
2-Methylnaphthalene	160	STATE OF THE PARTY	ND	NT	ND ND	13 J
1,1'-Biphenyl	390	5,000		NT	ND	ND
Acenaphthylene	NL	NL	ND	NT	ND ND	15 J
Acenaphthene	470	5,000	ND			ND
4-Nitrophenol	63	1,600	ND	NT	ND	
Dibenzofuran	31	820	ND	NT	ND	ND
2.4-Dinitrotoluene	16		ND	NT	ND	ND
Fluorene	310	5,000	ND	NT	ND	17 J
N-Nitrosodiphenylamine	130	1,200	ND	NT	ND	ND
Pentachlorophenol	5	48	ND	NT	ND	ND
Phenanthrene	1.000	5,000	ND	NT	0.6 J	51
	1,000		ND	NT	ND	8.2 J
Anthracene	32		ND	NT	ND	ND
Carbazole	310		ND	NT	ND	6.1 J
Fluoranthene	230			NT	ND	21 J
Pyrene				NT	ND	ND
Butylbenzylphthalate	930			NT	ND	14 J
Benzo(a)anthracene	0.9			NT	ND	ND
bis (2-ethylhexyl) phthalate		— The second second			ND	20 J
Chrysene	87			NT		4 J
Benzo(b)fluoranthene	0.9			NT	ND	8.0 J
Benzo(a)pyrene	0.09			NT	ND	THE REAL PROPERTY AND ADDRESS OF THE PARTY O
Indeno(1,2.3-cd)pyrene	0.9	1	ND	NT	ND	ND
Dibenz(a,h)anthracene	0.09			NT	ND	ND
Benzo(q,h,i)perylene	N	N	ND	NT	ND	ND
Benzaldehyde	78	5,000		NT	ND	ND
Caprolactam	1,000	THE RESERVE THE PERSON NAMED IN	ND	NT	ND	ND
Total Estimated TICs	NI			NT	0.76 J	1937 J
TCL VOLATILE ORGANIC		THE RESERVE OF THE PERSON OF T				
	780		ND	NT	NT	ND
Acetone	1.000			NT	NT	ND
Methyl Acetate	1,000	The second secon		NT	NT	0.77 J
Cyclohexane				NT	NT	1.5 J
Benzene	0	ACCOUNT OF THE PARTY OF THE PAR		NT	NT	2.9
Methylcyclohexane		L N		NT	NT	4.1
Toluene	65		14	NT	NT	ND
Chlorobenzene	13		74	NT	NT	7.6
Ethylbenzene		Committee Commit			NT	35
Xylene	42				NT	1.8 J
Isopropylbenzene	N			117	NT	ND
1.2-Dichlorobenzene	56					1242 J
Total Estimated TICs	N.	A N	ND ND	141	141	12.20

TABLE 9 (UNRESTRICTED USE) SUMMARY OF SOIL COCS, RI

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

0.0-0.3 0.0-0.2 6/19/02 6/19/02 Soil Soil Grab Grab Grab mg/kg MY		URS for	Default	SB 2-1	HS 2-3	HS 2-4
Standards (mg/kg) 6/19/02		Unrestricted	Background	0.0-5.5	0.0-0.3	0.0-0.2
Check Soil Soil Soil Soil Soil		Use (mg/kg)	Standards	6/19/02	6/19/02	6/19/02
Grab Grab Grab Grab			(mg/kg)	Soil	Soil	Soil
mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg				Grab	Grab	Grab
1,24				mg/kg	mg/kg	mg/kg
NT NT NT NT NT 3 CO.5 G.2 ND 2,770 2,370 2,370 3 CO.5 G.2 ND 2,77 2,88 2.8 1 7.1 7.2 3.8 2.8 1 7.1 7.2 3.8 2.8 1 7.1 7.2 3.8 2.8 1 7.7 2,88 14.6 6.2 6 41 7.7 2,88 14.6 6 POL NT NT NT 9 POL <				4.24	2.97	2.55
0 7,800 2,640 2,770 2,370 3 <0,5 6,2 ND 2,770 2,370 1 71 7.2 3.8 2.8 1 50 14.6 61.8 2.4 0 2,300 8,230 72,300 5,720 0 2,300 8,230 72,300 5,720 6 2,300 8,230 72,300 5,720 6 2,300 8,230 7,7 2,880 14.6 6 POL NT NT NT 8 POL NT NT NT 9 POL </td <td></td> <td></td> <td></td> <td>NT</td> <td>NT</td> <td>TN</td>				NT	NT	TN
D 7,800 2,640 2,770 2,370 3 40.5 6.2 ND 2,4 B 6.2 NB 1 71 7.2 3.8 2.8 1 50 8,230 12,300 5,720 6 2,300 8,230 12,300 5,720 6 2,300 8,230 12,300 5,720 6 2,300 8,230 12,300 5,720 6 2,300 8,230 12,300 5,720 8 PQL NT NT NT 9 PQL NT NT NT 1 PQL NT NT NT 1 PQL NT NT NT 4 PQL <						
3		7 800	7 800	2,640	2,770	2,370
1 11 7.2 3.8 2.8 2.8 2.8 2.8 2.9 2.300 8,230 6,130 7,2 300 5,720 0,0 3,230 2,300 8,230 7,7 2,880 14.6 5,720 8,0 3 11.9 2,300 8,230 7,7 2,880 14.6 7,7 2,880 11.9 2,25 8,0.9 2,25 8,0.9 2,25 8,0	1.5			ON CO		6,2 ND
9 2,300 8,230 7720 61.8 24 14.6 61.8 14.6 61.8 24 14.6 10 2,300 7.7 2,880 14.6 14.6 15.7 2,880 14.6 14.6 15.7 2,880 14.6 14.6 15.7 2,880 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6				7.2	3.8	2.8
12,300 8,230		- 5		14.6	61.8	24
## Pal				8 230	12300	12/2U
BIPHENYLS (PCBs) 4				7.7	2,880	14.6
BIPHENYLS (PCBs) 4		r G		25	6'08	11.9
4 Pat NT	S	HORINATED I	BIPHENYLS (P	CBs)		
3 Pal NT	8	0'0	4 POL		IN	IN
3 Pat NT NT NT Pat Pat NT		٥			IN	IN
9 POL NT NT NT POL NT		Ġ			IN	IN
9 PQL NT	ĪΞ		die of the second			
9 PQL NT NT NT PQL PQL NT		1			IN	IN
9 PQL NT		ے ا			IN	IN
9 PQL NT		0.0				IN
9 PQL NT NT NT NT 84 PQL NT	Œ	O			IN	IN
H PQL NT NT NT AT A PQL NT		0.0			TN	IN
.8 PQL NT NT NT AT NT	-	2			TN	TN
.8 PQL NT NT AT	2	COMPOUNDS				
POL NT NT		o			IN	. NT
		2				IN

TABLE 9 (RESTRICTED USE) SUMMARY OF SOIL COCS, RI

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

Location Identification	IIRS for	Default	MW-1	SB 2-3	SB 2-5	SB 2-7	SB 2-8	HS 2-1	HS 2-2	T-1
Comple Douth (feet)	1 Inrestricted	Background	10-11.9	14-15	0.6-1.4	23-24	14.0-14.6	0.0-0.3	0-3	16-17
Sample Deptil (leet)	Lise (ma/ka)	Standards	6/10/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	6/17/02	8/1/02
Matrix	(66) 250 L	(ma/ka)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Mattix		(66)	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type			ma/ka	ma/ka	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Office Management (possesset)	_		99	8.37	7.25	12.3	6.04	5.94	9.55	9.49
Moisture (percent) oH (standard units)			7.83	7.85	10.7	7.8	7.3	5.75	NT	7.43
TAI METAI S										
IALMEIALS	7 800	7 800	3.360	3,350	3,800	4,410	4,840	IN	2,950	5,400
	**************************************	3 C V	ON Pre			0N 8 9	6.3 ND	NT	16.4	ON 2'9
Amiliony	•	-	UN T			1.15 ND	1.1 ND	IN	21.7	1.1 ND
Ajacilic	310	1 6	1.8 B	1.5 B	4 B	2.2 B	2.4 B	IN	1,500	1.0 BE
	2 300	2.300	2,290	571	2.740	1,380 *	1,000 *	IN	23,500	786
DIS			3.4	2.2	5.5	3.6	2.9	IN	1,080	4.4
Vanadium	55	. 2	19.4	17.5	8.1 B	11.4	5.7 B	IN	11.5	27.4
TCL PESTICIDES / POLYCHLORINATED BIPHENYLS (PCBs	ILORINATED B	IPHENYLS (PO	CBs)							
Dieldrin	0,04	Pol	0.0355 ND	ON 60.0	0.0175 ND	0.019 ND	0.00175 ND	0.015 JP	NT	0.043
PCB Aroclor 1254	0.3	POL	0N 355,0	ON 6.0	0.175 ND	0.19 ND	0.0175 ND	× 8'1	NT	0.365 ND
PCB Aroclor 1260	0.3	1	. 0	ON 8.0		0.19 ND	0.0175 ND	0,35 ND	IN	0.365 ND
TCL SEMIVOLATILE COMPOUNDS	SUNDS									
Benzo(a)anthracene	6'0	153	(71	91	1,8 ND	()	0.175 ND	NT	1.85 ND	77
Benzo(b)fluoranthene	6 0		3,3	3.9	7.8 ND	0.49 J	0.175 ND	NT	1,85 ND	4.0
Benzo(a)nvrene	60 0		7.4	6.7	1.75 ND	0.93	0.175 ND	NT	1,85 ND	8.0
Indeno(1.2.3-cd)pvrene	6.0		14	\(\text{\text{\$\delta}}\)	1.8 ND	ON G.L	0.175 ND	NT	1.85 ND	18,0 ND
Dibenzía h)anthracene	60.0	Pal	1.5	ON L	J.8 ND	J.B ND	0,175 ND	NT	1,85 ND	18.0 ND
1	Z		205	2390 J	663.13 J	490.2 J	0.29 J	, NT	0.76 J	1937 J
TCL VOLATILE ORGANIC COMPOUNDS	OMPOUNDS									
Benzene	0.8	Pol	1.1	1.2	0.265 ND	0.6 ND	0.27 ND	IN	IN	1.5 J
p	NA.		8	892 J	L 709	394.5 J	QN	IN	IN	1242 J
	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN T					_			A	

(UNRESTRICTED USE)

SUMMARY OF STREAM SEDIMENT SAMPLE ANALYSIS RESULTS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

ocation Identification	URS for	Default	Default	Typical Delaware	SED-1	SED-2
ample Depth (feet)	Protection of		Background	Soil	Surface	Surface
ampling Date (mo/d/yr)	the	Standard,	Standard,	Concentrations	6/10/02	6/10/02
fatrix	Environment.	Sediment	Soils (mg/kg)	(mg/kg)	Soil	Soil
ample Type	Sediment	(mg/kg)			Composite	Composite
Inits	(mg/kg)	(3 3,			mg/kg	mg/kg
Moisture (percent)	(95/				85.6	84.5
H (standard units)					6.43	6.58
AL METALS						
Juminum	NE NE	7,800	7,800	4,800 - 12,000	11,100	17,000
Antimony	2		<0.5	<0.5	ND	ND
			0.4	1-10	ND	9.2 B
krsenic	20		82	40-80	278 B	321
Barium	NI	0.5	10	0.6 - 1.0	2.7 B	2.1 B
Beryllium			3	1-3	0.97 B	2.6 B
Cadmium	177		NL	NL NL	2,560 B	3,870 B
Calcium	THE RESERVE OF THE PARTY OF THE		0	5-30	24.2 *	30.6 *
Chromium	81					12.8 B
Cobalt	NE		20	4-13	21.5 B	87.1
Copper	34	19/	50	15-40	29.7 B	
ron	N.		2,300	3,000-22,000	22,900 *	14,900 *
ead	41		41	30-100	35.5	95.5
Magnesium	NI.		NL	NL	1,280 B	2.590 B
Manganese	N	180	180	60-350	249	109 *
Mercury	0.5	0.2(g)	0.0005	0.1-0.3	ND	NE
Nickel	21	21	30	5-15	36.2 B	47.6 B
Potassium	NI.	NL	NL	NL	635 B	960 B
Selenium		0.2	0.2	0.1-0.5	ND	NE
Silver		1	2	1-2	ND	N
Sodium	N		NL	NL	ND	927 B
	- NI		1	1	ND	N
Thallium	N	2	2(e)	15-40	58.4 B	91.9
Vanadium	15		8(e)	60-90	192	499
Zinc			PQL	PQL	ND	N
Cyanide	0.			FQL	110	
TCL PESTICIDES / POLY			S (PCBs)	501	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	l NI
beta-BHC	N		PQL	PQL	0.0091 JP	
Heptachlor Epoxide	, NI		PQL	PQL	0.0017 JP	0.0024 JF
gamma-Chlordane	0.00	PQL	PQL	PQL	ND	0.0019 JF
alpha-Chlordane	0.00	PQL	PQL	PQL	0.0017 JP	0.0017 JF
4.4'-DDE	0.0	PQL	PQL	PQL	0.064	0.068
Endosulfan I	0.00	PQL	PQL	PQL	0.0023 JP	N
Dieldrin	0.00	PQL	PQL	PQL	0.0025 JP	N
4.4'-DDD	0.00	PQL	PQL	PQL	0.035	0.039
Endosulfan II	0.00	PQL	PQL	PQL	0.0033 JP	0.0025 J
4.4'-DDT	0.00		PQL	PQL	0.017 JP	0.009
PCB Aroclor 1254	7	The state of the s	PQL	PQL	0.094 J	0.16 J
	- · · · · · · · · · · · ·	15.	PQL	PQL	0.035 J	N
PCB Aroclor 1260	THE CHILD C	742				
TCL SEMIVOLATILE CO		701	PQL	PQL	0.63 J	l N
4-Methylphenol	N	ACC.	PQL	PQL	0.59 J	N
Naphthalene	σ.	Carl Control			The state of the s	N
2-Methylnaphthalene	N	(%)	PQL	PQL	0.78 J	0.21 J
Phenanthrene	0.	7.5	PQL	PQL		0.21 J
Fluoranthene	O.		PQL	PQL	0.69 J	
Pyrene	-: N	100	PQL	PQL	0.78 J	0.25 J
Butylbenzylphthalate	1.452.554	30.4	PQL	PQL	0.43 J	N
Benzo(a)anthracene	0.		PQL	PQL	0.39 J	N
bis (2-ethylhexyl) phthalat		3 PQL	PQL	PQL	1.7 J	0.61 J
Chrysene	· O	9 . PQL	PQL	PQL	0.48 J	1
Benzo(b)fluoranthene	The state of the s	4 PQL	PQL	PQL	0.5 J	1
Benzo(a)pyrene		1 PQL	PQL	PQL	0.38 J	1
Indeno(1,2,3-cd)pyrene		8 PQL	PQL	PQL	0.39 J	1
muello 1,2,5-culpyrelle	THE REAL PROPERTY AND ADDRESS.	PQL	PQL	PQL	0.41 J	1
		I GL				
Benzo(g,h,i)perylene	Sales and the sales and the sales are the sales and the sales are the sa	The state of the s	PQL	PQL	0.62 J	0.65 J
	1	L PQL		PQL PQL	0.62 J 0.53 J	0.65 J

TABLE 11 (UNRESTRICTED USE)

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYSIS RESULTS

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

				:516		发。 1000年					
Location Identification	URS for	URS for	Default	MW-2		MW-2		MW-3		MW-3	
Sampling Date (mo/d/yr)	Protection of	Protection of	Background	7/17/02		7/17/02		7/17/02		7/17/02	
Matrix	Human Health,	Environment, Surface	Standard	Water Filtered		Water	,	Water		Water	
Sample Type Units	Groundwater (mg/L)	Water (mg/L)	(mg/L)	mg/L		Unfiltered	1	Filtered mg/L		Unfiltered mg/L	3
Offics	(mg/c)	Water (mg/L)		111g/L		mg/L		mg/L		I IIIg/L	
TAL METALS											
Aluminum	0.2	0.087	0.2		ND	0.0684	В		ND		ND
Antimony	0.006		0.006		ND		ND		ND		ND
Arsenic	0.05	0.003	0.001		ND		ND		ND		ND
Barium	2	0.004	0.004	0.17	В	0.178	В	0.117	В	0.115	В
Beryllium	0.004	0.0007	0.0007		ND		ND	0.00042	В	0.00038	В
Cadmium	0.005	0.001	0.001	0.00024	В	0.0002	В	0.00041	В	0.0003	В
Calcium	NE.	NL	NL	12.3		13.4		6.39		6.17	
Chromium	0.1 / 0.011	0.21 / 0.011	0.1		ND		ND		ND		ND
Cobalt	0.22	0.023	0.023	0.0282	В	0.0273	В	0.0077	В	0.008	В
Copper	1.3	0.012	0.012	0.0029	.B	0.0041	В	0.0122	В	0.0058	В
Iron	. 0.3	1	0.3	2.88	Į.	2.51		3.46		3.23	
Lead	0.015	0.003	0.015		ND	0.0015	В		ND		ND
Magnesium	NE	, NL	NL	8.67		8.96		7.03		6.83	
Manganese	0.05	0.08	0.05	1.1		1.12		0.122		0.118	-
Mercury	0.002	0.001	0.0004		ND		ND		ND		ND
Nickel	0.1	0.16	0.1		ND		ND	0.0032	В	0.0024	В
Potassium	NE	NL	NL	2.85	В	2.97	В	6.15		6.11	
Selenium	0.05	0.0004	0.02		ND	2.07	ND	0.10	ND	0.0047	В
Silver	0.1	0.0004	0.0004		ND		ND		ND	0.0047	ND
Sodium	NZ	NL	NL	54.1	110	55	140	29.9	140	28.5	110
Thallium	0.002	0.009	0.002	04.1	ND	- 55	ND	20.0	ND	20.0	ND
Vanadium	0.026		0.019		ND		ND		ND		ND
Zinc			0.11	0.0196	В	0.0194	В	0.0143	В	0.0095	В
Total Cyanide CLP		0.02	PQL	0.0100	NT	0.0134	ND	0.0140	NT	0.0000	ND
TCL PESTICIDES / POLYC	《新疆》的《新疆》《新疆》						ND		141		-110
beta-BHC	0.00004		PQL		NT	8.5E-06	JBP		NT	8.2E-06	JBP
Dieldrin	0.000004	0.003	PQL		NT	0.02 00	ND		NT		ND
TCL SEMIVOLATILE ORGA	PROSTORY PROPERTY AND A SECOND										
Naphthalene	0.02/0.0007	0.012	PQL		NT		ND		NT		ND
1,1'-Biphenyl	0.03	0.014	PQL		NT		ND		NT		ND
Phenanthrene	0.12	0.006	PQL		NT		ND		NT		ND
Carbazole	0.003	NL	PQL		NT		ND		NT		ND
Total Estimated TICs	NE.	The second liverage with the second liverage w	PQL		NT	0.045	J		NT	0.031	J
TCL VOLATILE ORGANIC	CANADA CA				141	0.043	<u> </u>		147	0.001	
Chloroform	0.1 / 0.0001	0.006	PQL		NT		ND		NT		ND
1,1,1-Trichloroethane	0.7		PQL		NT		ND		NT		ND
Cyclohexane	18.0	NL	PQL		NT		ND		NT		ND
Benzene	0.005/0.0004		PQL		NT		ND°		NT		ND
Tetrachloroethene	0.005 / 0.001		PQL		NT		ND		NT		ND
Total Estimated TICs	NE.		PQL		NT		ND		NT		ND
GENERAL CHEMISTRY	The way of the West	145	, 42		141		NU		141		140
	ld NE	NL	NL		NT		NO		AIT		ND
Biochemical Oxygen Deman	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED		NL			170	ND		NT	20	ND
Chemical Oxygen Demand	NE.		NL		NT	17.2	J		NT	28	J
Total Chloride	L IN	INL	IAT		NT	119			NT	29.7	

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYSIS RESULTS

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

				212(4) 212(4)212	the state of the s	. I by	26 4		the state of the s	T	1710110
action Identification	IIRS for	URS for	Default	GW-1	GW-2	GW-2	GW-3	GW-4	GW-5		CVSW
Sampling Date (mo/d/vr)	Protection of	Protection of	Background	7/31/02	7/31/02	7/31/02	7/31/02	7/31/02	7/31/02	1	Motor
Matrix	Human Health,	Environment,	Standard	Water	Water	Water	Water	Water	Water	1	Water
Ale Type	Groundwater	Surface	(mg/L)	Unfiltered	Unfillered	Filtered	Unfiltered	Untiltered	Unfiltered	5	Illiered
Units	(mg/L)	Water (mg/L)		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	+	mg/L
										+	
TAL METALS			0	4.0	1800	CIN	IN	IN		NT	QN
Aluminum	0.2	٥	0.2	N	N THE STREET		TIV			TN	QN
Antimony	0.006			IN	QN	GN C	2				
Arsenic	0.0	0.003		IN	QN	ON	2			\perp	0 278
Barium	2	0.004		IN	-		IN			+	OIN NID
Beryllium	0.00	0.0007	0.0007	IN	0.002 B	0.0021 B	IN			2 3	2 2
•		0.001	0.001	IN	QN	QN	IN			2	NO
Cadmium				IN	52.6	50.6	IN	IN		NT	25.7
Calcium		0 24 / 0		IN	QN	QN	IN	IN		4	- 1
Chromium		0.21	0		0.0048 B	0.004 B	IN	IN	_	NT	9600.0
Cobalt					1	QN	IN	IN		NT	QN
Соррег					280 7	0.61A	IN	TN	7	NT	0.126 N
					CIA CIA	CIV				N	QN
Lead	0.0	0.0	0.0		1				1	IN	12.5
Magnesium	2					10.	TIV			NT	0.087
Manganese	0.0								1	_	0.00027
Mercury	0.00		0.00			ON CA	TIM		1	+	0.0181 B
Nickel	d				1	ON 199			1	-	
Potassium	2				18.9	C.01			1	NT	QN
Selenium	0.0									TN	CZ
Silver	.	0.0	0.00		1	1				I	683
Sodium	2				78.0	76.8	N			LN	CN
Thallium	00'0				BOULD	-	N	2 14		NT	CN
Vanadium	0.02	6 0.019	0		4	0.0026 B	N. S.		-	NT N	0 429
Zinc				IN	0.0679	0.0664				1	2
Total Cyanide CLP	0.2	2 0.02	Pat	IN	QN	QN	2	2		1	
TCL PESTICIDES / POLYCHLORINATED BIPHENYLS (PCBs)	HLORINATED BIP	HENYLS (PCB						1	-	MY	CN
-BHC	0.0000	0.00001							-	1	
drin	0.00000	0.003	3 PQL	NT	0.000000	IN	N	N			
TCL SEMIVOLATILE ORGANIC COMPOUNDS	ANIC COMPOUND	S							0 0 0 C	-	ON
hthalene	0,02 /0,000								0001		CN
-Biphenyl	0.0	1							L	-	CZ
nanthrene	0.1	0.0							1	, -	CZ
bazole	0.00	N			1		000	0,00	1	, -	
Total Estimated TICs	늰	N	L Pat	- 0.026 J	0.02 J	N	0.029	0.013	0.252	7	0.003
TCL VOLATILE ORGANIC COMPOUNDS										1	1 3000
Chloroform	_						0.001	2 .	ON CO		
1,1,1-Trichloroethane		0.0		900.0	0.008		0.015		1	2	2
Cyclohexane	18			QN					_		
Benzene	0.005 / 0.000				_				annyn ON	_	ON ON
Tetrachloroethene	0.005/0.00	100.001	1 PQL	0.008	0.018	N	0.027	70000	-	QN	ON
Total Estimated TICs	_	NI NI	L PQL		QN	IN		QN	ND 0.071	-	QN
GENERAL CHEMISTRY									1	1	
Biochemical Oxygen Demand									N	N	
Chemical Oxygen Demand		N				N			NT	N	15
Total Chloride			NL NL	L NT	T 148	IN		NT	NT	N	06

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

TEN BEARS ENVIRONMENTAL, LLC November 2002

(UNRESTRICTED USE) SUMMARY OF GREUNDWATER COCs

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

				7 (old 4 b) 1 ()	141.8.1014.	既然をよっている	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
I ocation Identification	URS for	URS for	Default	MW-2	MW-2	MW-3	MW-3
Sampling Date (mo/d/yr)	of	Protection of Background	Background	7/17/02	7/17/02	7/17/02	7/17/02
Matrix	Human Health, Environment,	Environment,	Standard	Water	Water	Water	Water
Sample Type	Groundwater	Surface	(mg/L)	Filtered	Unfiltered	Filtered	Unfiltered
Units	(mg/L)	Water (mg/L)		mg/L	mg/L	mg/L	mg/L
TCL SEMIVOLATILE ORGANIC COMPOUNDS	RGANIC COMPO	JNDS					
Naphthalene	p.02 /0.0007	0.012	PQL	NT	QN	NT	QN
TCL VOLATILE ORGANIC COMPOUNDS	IIC COMPOUNDS						
1.1.1-Trichloroethane	0.2	0.011	PQL	NT	QN	NT	QN
Benzene	0,005 / 0.0004	0.001	PQL	IN	ON	NT	QN
Tetrachloroethene	0.005 / 0.001	0.001	PQL	NT	QN	NT	ND

(RESTRICTÉD USE) SUMMARY OF GROUNDWATER COCs

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

				As the world of which	Miscoula William	The second of the second	S. Section States	大学 大	新发现了李宗帝	MATERIAL PROPERTY.
. 0				1911-1911					公司的明祖	場を上海
300	11De for	11BS for	Default	GW-1	GW-2	GW-2	GW-3	GW-4	GW-5	CVSW
Location Identification	Protection of	-	ä	7/31/02	7/31/02	7/31/02	7/31/02	7/31/02	7/31/02	8/8/02
Sampling Date (moray)	Human Health	Fryironment	Standard	Water	Water	Water	Water	Water	Water	Water
Mailix	Groundwater	Surface	(I/om/	Unfiltered	Unfiltered	Filtered	Unfiltered	Unfiltered	Unfiltered	Unfiltered
Sample Type	(mo/l)	Water (mg/L)	(1.6)	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	nıg/L
TEL SEMINOLATILE OBGANIC COMPOLINDS	COMPO COMPO	INDS								
ICL SEMINOLATIES OF		0 042	100	CIV	CIN	TN	QN		L 100,0 ON	QN
Naphthalene	7.00 (U.U.V.)	0.012		ON					Dilla American distri	
TCL VOLATILE ORGANIC COMPOUND	IIC COMPOUND	SC								
1 1 1-Trichloroethane	0.2	0.011	PQL	O.006	0.008 J	IN	0.015	QN	QN	QN
Велуеле	0.005 / 0.0004	0.001	PQL	QN	QN	NT	QN		O'0000	QN
Tetrachloroethene	0.005/0.00	0.001	PQL	0,008	0.018	NT	0.027	0.007	QN	QN
	DESTANGATION OF THE PROPERTY OF	-	-	The same of the sa						

TABLE 13 SUMMARY OF SELECTED FATE AND TRANSPORT INFORMATION

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

		Water	Distribution	Melting Point	Boiling Point
SUBSTANCE	Density	Solubility	Coefficient	(degrees C)	(degrees C)
	(g/mL)	(mg/L)	(mL/g)		
CARCINOGENS					
Arsenic	5.73	1,230	200	NL	J N
Dieldrin	1.75	0.195	42.8	175.5	Z
PCBs	¥	0.07	1,730	N	뉟
Benzo(a)anthracene	¥	0.0094	802	84	¥
	Z	0.0015	2,490	168	Ŋ
Benzo(a)byrene	Z	0.00162	2,030	176.5	Ŋ
Indeno(1.2.3-cd)byrene	Z	0.000022	068'9	161.5	536
Dibenz(a h)anthracene	Z	0.00249	7,540	269.5	N
Benzene	0.876	1,750	0.118	5.5	80
Tetrachloroethene	1.6	200	0.31	-22.3	121
NON-CARCINOGENS					
Aluminum	2.7	N	1,500	099	2,467
Antimony	6.68	N	45	630.5	1,750
Arsenic	5.73	1230	200	N	NL
Conner	8.94	897	428	1,083	2,595
Iron	7.86	1,550	25	1,535	2,750
Naphthalene */	1.03	31	4	80	218
Vanadilm	6.11	Z	1,000	1,917	٦

* The data in this table was obtained from the Superfund Chemical Data Matrix, used in EPA's Hazard Ranking System scoring. These values may not represent actual contaminant characteristics at standard temperature and pressure.

Appendix 2: SU	MMARY OF RISK ASSESSMENT DATA (Tables 14 A-18B)

TABLE 14A

SUMMARY OF EPC ESTIMATES, RESIDENTIAL AREAS

COMP	OUND OF CONCE	RN	TAL METALS	Monthery	*ninon.	4 _{Sente}	C _{ODORA}	(Tog.	Variation,	TCL PESTICIDES / POLYCHLORINATED BIPHENYLS (PCBs)		Araciar	PCB Aroclor 1260
Location Identification	Sample Depth (feet)	Units	TALN	N	N	С	N	N	N	TCL PESTICIDES ALORINATED BIP (PCBs)	С	С	С
REMEDIALIN	VESTIGATION	day years.								OR OR			erman erminist
SB 2-1	0.0-5.5	mg/kg		2,640	6.2	7.2	14.6	8,230	25	도 로			
HS 2-3	0.0-0.3	mg/kg		2,770	2.4	3.8	61.8	A STATE OF THE PARTY OF THE PAR	80.9	70	-		
HS 2-4	0.0-0.2	mg/kg		2,370	6.0	2.8	24	5,720	11.9	5	Standard Control of the	arthur betar betar	State Control
PRELIMINAR	Y EVALUATION	71.50			1.5		7		THE STATE	Δ.		0.485	0.485
SS-1	0-0.5	mg/kg		2,730	8.9	2	51.4	3,330	16.1		0.0485		0.0255
SS-2	0-0.5	mg/kg		3,620	9.05	2.3	105	4,170	34.4		0.0041	0.1	0.0255
SS-3	0-0.5	mg/kg		12,800	26.3	7.1	234	12,200	41.3		0.07	the state of the state of the state of	Section 2
SS-4	0-0.5	mg/kg		10,400	27.25	8.7	190	9,970	80.0		0.047	U./3	U./ 3
SB-11	13.5	mg/kg											
SB-11	13.0-14.0	mg/kg									2 22425	0.062	0.0185
SB-20A	0-0.5	mg/kg		2.050	6.7	3.0	12.6	Charles and the second	12.3		0.00185	0.062	0.0100
SB-21	0-1.2	mg/kg		6,180	0.6	3.0	18.3	4. 2015年 1975年 197	18.1		2 22210	0.019	0.019
HA-5A	5.0-5.5	mg/kg	İ	6,670	0.55	0.36	2.4	Control of the last of the las	8.3		0.00019		0.013
HA-GP-7A	1.0-1.5	mg/kg		2,710	0.55	0.355	4.1	1,690	3.3		0.00185	0.0185	0.0100
											0.02481	0.3049	0.2881
	MEAN			4,995	9	3.7	65 11	6,457	30 11		7	7	7
	NUMBER			11	11	7.780397	6275.565	13593302	742.2127		0.00086419	0.10856704	0.11808745
	VARIANCE			13264427	90.98205	2.789336	79.21846		27.24358	1	0.02939704		0.34363855
	STD. DEV.			3642.0361	9.538451 2.875951	0.841017	23.88527	1111.645				0.12453745	0.12988316
	STD. ERROR		1	1098.1152	1.812462	1.812462				1	1,94318091	1.94318091	1.94318091
	TINV		1	1.8124615 0.7292027	1.110884	0.755452		0.5709701	0.903738	1	1.18611604	1.08056494	
	CoVAR		-	6984.837	13.79891	5.216583		8472.0866	45.03346	4	0.04637504	0.0	0.54045791
	95% UCL		-	12.800	27	9			81		0.0700	0.7500	0.7500
	MAX		1	2.050	1	0	2	1,690	3		0.0002		
	EPC		1	6,985	13.8	5.22	108.6	8,472	45.0		0.0464	0.5469	0.5405
							310	0.000	55.0	1	0.04	0.3	0.3
UNRESTRICT	ED USE URS			7,800	3	11	310	2.300	55.0	1	0.04	0.0	

TABLE 14A

SUMMARY OF EPC ESTIMATES, RESIDENTIAL AREAS

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

00	OUND OF CONCE	RN	SUNDS	Benzo (a) anthracen e		(a)		(a,h) anthrace ne		Yenz.	ene
Location dentification	Sample Depth (feet)	Units	COMPOUNDS	С	С	С	С	С	TCL VOLATILE COM	C	-
EMEDIAL IN	NVESTIGATION	ALC: NO.	SEMIVOLATILE	建筑水积		秦州李约44 , 5	ACCENTATION OF	este policina de Parti.	₹	W.3 W.5	Andrew S
SB 2-1	0.0-5.5	mg/kg	AT						8	-	
HS 2-3	0.0-0.3	mg/kg	7						占	-	
HS 2-4	0.0-0.2	mg/kg	_ ≧						-		20.0648
FLIMINAR	Y EVALUATION		E N		A tree was					1576	
SS-1	0-0.5	mg/kg	100								
SS-2	0-0.5	mg/kg	TCL							-	
SS-3	0-0.5	mg/kg								-	
SS-4	0-0.5	mg/kg									0.3
SB-11	13.5	mg/kg						20000000		-	0
SB-11	13.0-14.0	mg/kg		0.175		400000000000000000000000000000000000000		0.175		-	
SB-20A	0-0.5	mg/kg		0.185	0.185	0.185	0.185	0.185			
SB-21	0-1.2	mg/kg						AND RESIDENCE OF THE PARTY OF T		-	
HA-5A	5.0-5.5	mg/kg		0.19		STATE OF THE PERSON NAMED IN COLUMN		0.19		-	
HA-GP-7A	1.0-1.5	mg/kg		0.185	0.185	0.185	0.185	0.185			
					0.18	0.18	0.18	0.18			0.:
	MEAN			0.18				4			
	NUMBER			3.9583E-05			3.9583E-05	3.958E-05		NA	
	VARIANCE STD. DEV.			0.00629153	0.00629153		0.00629153			NA	
	STD. ERROR			0.00314576	0.00314576	0.003146	0.00314576			NA	
	TINV			2.35336302	2.35336302	2.353363	2.35336302	2.353363		NA	
	CoVAR			0.03423961	0.03423961		0.03423961	0.0342396		NA	
	95% UCL				0.19115313		0.19115313			NA	0.2
	MAX			0.190				0.190		-	0.2
	MIN			0.175						-	0.2
	EPC			0.190	0.190	0.190	0.190	0.130			

Ten Bears Environmental, LLC

TABLE 14A SUMMARY OF EPC ESTIMATES, NON-RESIDENTIAL AREAS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

PGB Arocipr 1260	U	Section of	0.355	6.0	0.175	0.19	0.0175	0.35	396.0	0.30.0		1.15		0.018	1.1						0.0185		0.4783	12	0.20520643	0.45299717	0.13076902	1.79588369	0.94719742	0.71309595	1.150	0.01750	0.71309595	8
PCB PC Aroclor Ar 1254 12	v	200	0.355	0.0	0.175	0.19	0.0175	1.8	3000	0.303	いろう とれている これのかん 本をなる こうしゅう	1.15		0.092	1.1						0.0185		0.6053	12	0.33924152 0	0.58244444 0.	0.16813723 0			0.9072049 0	1.8		0.9072049 0	8
P A Pieldrin : 1:	υ		0.0355	0.09	0.0175	0.019	0.00175	0.015	CFO	0.043		0.115		0.0018	0.11		0.11				0.00185	2000	0.0467	12	0.00212414	0.0460884	0.01330457	1.79588369	0.9869036	0.07059347	0.115	0.00175	0.07059347	0.4
ОВІИАТЕР (LYCHL					EZ	d٦	ЭI																										
12 radium.	z	2.000	19.4	17.5	8.1	11.4	5.7		11.5	27.4		14.2		6.6	15		23.3				2.2		14	12	50.57902	7.111893	2.053027	1.795884	0.511954	17.57866	27	3	17.57866	1,400
/log	z	Section 2	2,290	571	2,740	1,380	1,000		23,500	786		1,010		2,480	1,060		1,550				1 600	oco'ı	3,338	12	40789912	6386,6981	1843.6809	1.7958837	1.913283	6649.1198	23,500	571	351.3548 6649.1198	61,000
College	z		1.8	1.5	4	2.2	2.4		1,500	1.0		2.4		3.7	1.9		1.8				4.1		127	12	186892.4	_	124.7973	1.795884	3.397777	351.3548	1,500	1		8,200
Preserve	U		1.1	1.1	1.3	1.15	1.1	-	21.7		A STATE OF THE PARTY OF THE PAR	0.37		1.5	0.345		0.355				0.355	0.000	2.6	12	36.29572	6.024593	1.73915	1.795884	2.304227	5.737895	21.7	0	5.737895	1.
Denitrates 1	z		6.4	6.5	6.4	6.75	6.25		4	6.5		6.9		6.55	6.5		6.65				0.55	0.00	7	12	12.01506	3 466274	1.000627	1.795884	0.505104	8.65951	16	-	8.65951	82
A. W. T.	z		3,360	3,350	3,800	4,410	4,840		2,950	5,400	0.00	4,780		3,530	3,170		3,790				0770	7,710	3 841	12	702790.152	838 325803	242.003814	1 79588369	0.21826664	4275.44404	5,400	2,710	4275.44404	300,000 82: 11 8,200 61,000
SJATE	EM JAT																		_					_	_	_	_	_		_		_		
	Loits		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		_	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg								-				
COMPOUND OF CONCERN	Sample Depth	GATION	10-11.9	14-15	0.6-1.4	23-24	14.0-14.6	0.0-0.3	0-3	16-17	LUATION	14-14.5	14-14.2	1-2.2	7.0-14.0	11.0-11.5	17-20	18-18.5	14.8-15	14.0-15.0	2.6-3.0	1.0-1.5	MEAN	MINABED	VARIANCE	STD DEV	STD FRROR	TINV	CoVAR	95% UCL	MAX	Z	EPC	
COMPOUN	Location	REMEDIAL INVESTIGATION	MW-1	SB 2-3	SB 2-5	SB 2-7	SB 2-8	HS 2-1	HS 2-2	T-1	BREI IMINARY EVALUATION	SB-8	SB-8	SB-9	SB-9	SB-9	SB-10	SB-10	SB-25	SB-25	SB-26	HA-GP-7A												RESTRICTED USE URS

TABLE 14B

SUMMARY OF EPC ESTIMATES, NON-RESIDENTIAL AREAS

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

																						_	_						_	_	_	_
Sertere	υ	The State of the State of the	- T		0.265	0.6	0.27			1 5	C. I		0.075	0.255	0.530	0.35		60	0.28		0.6			0.63	12	0.1916066	0.4377289	0.1263615	1.7958837	0.691606	0.8598472	
ьопиря	COW	ור	TA	70.	۸٦	DΙ																				-			12	Tro		
Djbenz (a.h) anthrace ne	υ	1000000			The second of		0.175	0.17	10 V				一次をはいるので	0 10		A CONTRACTOR OF THE PARTY OF TH	76.			0 18				3.48	14	22 5029		-	-		5 7287844	
Indeno(1, (2,3-cp) eyrene	υ	1 25		4.1	0.1	2.1	1.9	0.173	4 00	1.85			0	0	01.10	0.0	7.0	2.1		0.18		1.0	0.100	3.08	14	21 713413	4 6597654	1 2453747		1 5111586	5 2890449	3.4000110
b) In Benzo (a) 2 Pyrene P	U	NAME OF TAXABLE PARTY OF TAXABLE PARTY.		3	Jud - Contract	1.0	DAY.	0.1/5						- 0	0.18	210	O O O Section	15.V		0 10	0.10	01	0.185	3.21	14	13 045226 21 713413	3 7343308 4 6597654	0.0080419	1 7700317	1 1630841	4 0781783	4.3/01/02
Benzo (b) (lyoranth B ene	v			3.3	3.9	1.8	0.49	0.175		1.85	4		9			0.55		C		0,0			0.185	2 10	14	20047406	3.9917495		4 7700217	1.7709317 1.7709317	7.2381887 0.9310747 1.1030041 1.3111300 1.2387844	3.0403403
lanzo (a) B Inthrace (i	υ			1	G French Co	1.8	-	0.175		1.85			2		0.18	3.5	MATERIAL PROPERTY.	14.0		0,0	0.18	1.8	0.185	A 0.8	1.00	41	37.307.75	6.1617578	1.04075	1.7709317	1.2301001	1.8921912
Sanno	OGMPO	3	TIL	AJ	0/1	IME	ıs '	10.	Ĺ	_												,										
		Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg									
COMPOUND OF CONCERN	Sample Depth	(feet)		10-11.9	14-15	0.6-1.4	23-24	14.0-14.6	0.0-0.3	0-3	16-17	ALUATION	14-14.5	14-14.2	1-2.2	7.0-14.0	11.0-11.5	17-20	18-18.5	14.8-15	14.0-15.0	2.6-3.0	1.0-1.5		MEAN	NUMBER	VARIANCE	STD. DEV.	STD. ERROR	>NIL	CoVAR	95% IICI
СОМРОИ	Location	Identification	REMEDIAL INVESTIGATION	MW-1	SB 2-3	SB 2-5	SB 2-7	SB 2-8	HS 2-1	HS,2-2	T-1	PRELIMINARY EVALUATION	SB-8	SB-8	SB-9	SB-9	SB-9	SB-10	SB-10	SB-25	SB-25	SB-26	HA-GP-7A									
		-	- Sea	-	_	<u> </u>	-	_	-	_																						

NEAN	4 98	2.10	3.21	3.08	3.48		0.03
NIMBER		14	1/1	14	14		12
	14	-			010001	0 101	2002
VARIANCE	37.967259	3.9917495		13.945226 21.713413	NI.	0.1916000	0000
ANNONA CTO	6 1617578	1 9979363	3.7343308	4.6597654	4.7437276	0.4377289	7289
SID. DEV.	1 646700	0 5339709	0 9980419	1.2453747	1.2678145	0.1263615	3615
SID. EKKOK	7100077 1	1 7700317	, ,		1,7709317	1.795	7958837
NIIN NI	1.0004000	7770130 0 2001000		1.4	1 3617426	69.0	0.691606
CoVAR	1.2301007	0.3310141		2000440	1	0 859	1 8598472
95% UCL	7.8927972	7.8927972 3.0463403	1.8/6.1	5.2030443	3.1201044		4 4
MAX	. 15	9	12	18	18		6.1
	0 1750	0.1750	0.1750	0.1750	0.1750		0.255
NIIM	7 8007077	30	4	9781783 5.2890449	5.7287844	0.8598472	8472

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

RESTRICTED USE URS

EXCEL/01-17B-RIFSrpttables

Ten Bears Environmental, LLC

TABLE 15 SUMMARY OF SELECTED EPCs

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

			IOLIG	CENTIAL	NON-RE	NON-RESIDENTIAL
		Typical	KESI	KESIDENTIAL	N-NON	
SUBSTANCE	DBS	Delaware Soil Concentrations	EPC	RETAINED?	EPC	RETAINED?
CARCINOGENS						Carlotte of the contract of th
Arconio	11	1-10	5.22	S.	2.7	NO
Dioldrin	N	N	0.046	YES	0.071	YES
DCD Aroclor 1954	Z	N.	0.547	YES	0.91	YES
PCB Arodor 1260	Z	N	0.540	YES	0.71	YES
PCB Alociol 1200	į	2	0.19	YES	7.89	YES
Benzo(a)antiliacene	2 2		0.19	YES	3.05	YES
Benzo(b)iluorariulerie			0.19	YES	4.98	YES
Benzo(a)pyrene			0.19	YES	5.29	YES
Indeno(1,2,3-cd)pyrene	N.	N. I	0.10	YFS	5.73	YES
Dibenz(a,h)anthracene	NL	J	0.10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.86	YFS
Benzene	NL	NL	0.27	100		
NON-CARCINOGENS				AT BY HIS AND AND AND	3704	100000
Aluminum	7800	4,800 - 12,000	6985		0.774	
Antimony	<0.5	<0.5	13.8		0.00	TATE OF STREET
Arsenic	0.4	1 - 10	5.22		5.7	
Copper	50	1-3	109		351.35	Contract of the
Iron	2300	3,000 - 22,000	8472		6649	29
Vanadium	2	15 - 40	45.0	YES	17.0	
And the second s	AND ADDRESS OF THE PARTY OF THE					

REMEDIAL ACTION OBJECTIVES NON-RESIDENTIAL AREAS, CARCINOGENS

FORMER DRAPER KING COLE CANNERY MILTON, DELAWARE

NON-RESIDENTIAL

COC	CPSo	RAOs	R	Attained?
Dieldrin	1.60E+01	0.071	1.97E-07	yes
Aroclor 1254	2.00E+00	0.907	3.17E-07	yes
Aroclor 1260	2.00E+00	0.713	2.49E-07	yes
Benzo(a)anthraceme	7.30E-01	7.893	1.01E-06	yes
Benzo(b)fluoranthene	7.30E-01	3.046	3.89E-07	yes
Benzo(a)pyrene	7.30E+00	3.750	4.78E-06	no
Indeno(1,2,3-cd)pyrene	7.30E-01	5.289	6.75E-07	yes
Dibenz(a,h)anthracene	7.30E+00	1.900	2.42E-06	no
Benzene	2.90E-02	0.860	4.36E-09	yes
DOTTESTIC	Cumu	lative Risk	1.00E-05	
	Acceptal	ole Level =	1.0E-05	

RBC Equation for Commercial/Industrial Soil Ingestion, Carcinogenic Compounds

Cumulative Carcinogenic Risk Equation Derived from

RBC Equation

RBC =

(TR)(BWa)(ATc)

(EFo)(EDo)(IRSa/10^6)(FC)(CPSo)

R = TR =

(RBC)(EFo)(EDo)(IRSa/10^6)(FC)(CPSo)

(BWa)(ATc)

CR = SUM(Rs)

CONSTANTS Abbreviation Description BWa = Body weight, adult (kilogra ATc = Averaging time carcinoger EFo = Exposure frequency (days EDo = Exposure duration (years)	ams) = 70 ns (days) = 25550 s/year) = 250 = 25	Abbreviation R = TR	Description Risk (Target Risk) Exposure-Point Concentration (milligrams per kilogram (mg/kg calculated from site data - see	9) -
EDo = Exposure duration (years) IRSa = Soil ingestion, adult (millig FC = Fraction of contaminated	grams/day) = 100	CPSo	Table 13) Carcinogenic Potency Slope oral (risk/mg/kg/day)	see above

TABLE 17A

SUMMARY OF CUMULATIVE FUTURE CANCER RISK ESTIMATES, RESIDENTIAL

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

COC	CPSo	EPC	R
Dieldrin	1.60E+01	0.046	1.16E-06
Aroclor 1254	2.00E+00	0.547	1.71E-06
Aroclor 1260	2.00E+00	0.540	1.69E-06
Benzo(a)anthracene	7.30E-01	0.190	2.17E-07
Benzo(b)fluoranthene	7.30E-01	0.190	2.17E-07
Benzo(a)pyrene	7.30E+00	0.190	2.17E-06
Indeno(1,2,3-cd)pyrene	7.30E-01	0.190	2.17E-07
Dibenz(a,h)anthracene	7.30E+00	0.190	2.17E-06
Benzene	2.90E-02	0.270	1.23E-08
Berizano	Cumu	lative Risk	9.57E-06
	Acceptab	le Level =	1.0E-05

RBC Equation for Residential Soil Ingestion,

Carcinogenic Compounds

RBC =

(TR)(ATc)

(EFr)(IFSadj/10^6)(CPSo)

Cumulative Carcinogenic Risk Equation Derived from

RBC Equation

R = TR =

(RBC)(EFr)(IFSadj/10^6)(CPSo)

(ATc)

CR = SUM(Rs)

CONSTAN Abbreviation ATc = EFr =	Description Averaging time	carcinogens (days) ency (days/year)	<u>Value</u> = 25550 = 350	Abbreviation R = TR	ND-SPECIFIC VARIABLES Description Risk (Target Risk) Exposure-Point Concentration (milligrams per kilogram (mg/kg	g) -
IFSadj =	Soil ingestion for (milligrams*ye	actor, age adjusted ars/kilograms*days)	= 114.29	CPSo	calculated from site data - see Table 13) Carcinogenic Potency Slope oral (risk/mg/kg/day)	see above

TABLE 17B

SUMMARY OF CUMULATIVE FUTURE AND CURRENT CANCER RISK ESTIMATES NON-RESIDENTIAL AREAS

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

COC	CPSo	EPC	R
Dieldrin	1.60E+01	0.071	1.97E-07
Aroclor 1254	2.00E+00	0.907	3.17E-07
Aroclor 1260	2.00E+00	0.713	2.49E-07
Benzo(a)anthracene	7.30E-01	7.89	1.01E-06
Benzo(b)fluoranthene	7.30E-01	3.05	3.89E-07
Benzo(a)pyrene	7.30E+00	4.98	6.35E-06
Indeno(1,2,3-cd)pyrene	7.30E-01	5.29	6.75E-07
Dibenz(a,h)anthracene	7.30E+00	5.73	7.31E-06
Benzene	2.90E-02	0.860	4.36E-09
	Cumu	lative Risk	1.65E-05
	Acceptab	ole Level =	1.0E-05

RBC Equation for Commercial/Industrial Soil Ingestion,

Carcinogenic Compounds

Cumulative Carcinogenic Risk Equation Derived from

RBC Equation

RBC =

(TR)(BWa)(ATc)

(EFo)(EDo)(IRSa/10^6)(FC)(CPSo)

R = TR =

(RBC)(EFo)(EDo)(IRSa/10^6)(FC)(CPSo)

(BWa)(ATc)

CR = SUM(Rs)

CONSTANTS		COMPOU	ND-SPECIFIC VARIABLES	
Abbreviation BWa = Body weight, adult (kilograms) ATc = Averaging time carcinogens (day EFo = Exposure frequency (days/year) EDo = Exposure duration (years) IRSa = Soil ingestion, adult (milligrams/of FC = Fraction of contaminated soil ing	= 250 = 25 lay) = 100	Abbreviation R = TR RBC = EPC = CPSo	Description Risk (Target Risk) Exposure-Point Concentration (milligrams per kilogram (mg/kg calculated from site data - see Table 13) Carcinogenic Potency Slope oral (risk/mg/kg/day)	g) -

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

Page 50 of 56

TABLE 18A

SUMMARY OF FUTURE HAZARD INDEX ESTIMATES, RESIDENTIAL AREAS

FORMER DRAPER KING COLE CANNERY MILTON, DELAWARE

COC Antimony Copper	RfDo 1.00E-04 4.00E-02 7.00E-03	13.80 108.6 45.0	HQ 4.23E-01 8.33E-03 1.97E-02
Vanadium	Haza	rd Index =	0.45

RBC Equation for Residential Soil Ingestion, Non-Carcinogenic Compounds

Hazard Index Equation Derived from RBC Equation

11011 Gardinegerine eemperine

RBC =

HQ = THQ =

THQ = $\frac{(RBC)(EFr)(EDc)(IRSc/10^6)}{(RBC)(EFr)(EDc)(IRSc/10^6)}$

(THQ)(RfDo)(BWc)(ATn) (EFr)(EDc)(IRSc/10^6)

(RfDo)(BWc)(ATn)

HI = SUM(HQs)

.

CONSTANTS Abbreviation EDc = Exposure duration, age 1-6 (years) BWc = Body weight, age 1-6 (kilograms) ED = Exposure duration, adult (years) ATn = Averaging time non-carcinogens (days) EFr = Exposure frequency (days/year) IRSc = Soil ingestion, age 1-6 (milligrams/day)	= 6 = 15 = 25	COMPOUN Abbreviatioin HQ = RfDo = RBC = EPC =	Description Hazard Quotient Reference dose oral (milligrams/kilogram/day) Exposure-Point Concentration (milligrams per kilogram - calculated from site data - see Table 13)	
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TABLE 18B SUMMARY OF FUTURE HAZARD INDEX ESTIMATES, RESIDENTIAL

FORMER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

COC	RfDo	EPC	HQ
Antimony	1.00E-04	8.66	4.24E-02
Copper	4.00E-02	351	4.30E-03
	Haza	rd Index =	0.05
	Acceptab	ole Level =	1.0

RBC Equation for Commercial/Industrial Soil Ingestion,

Non-Carcinogenic Compounds

Hazard Index Equation Derived from

RBC Equation

RBC =

(THQ)(RfDo)(BWa)(ATn) (EFo)(EDo)(IRSa/10^6)(FC)

 $HQ = THQ = \frac{(RBC)(EFo)(EDo)(IRSa/10^6)(FC)}{(EFo)(EFo)(EDo)(IRSa/10^6)(FC)}$

(RfDo)(BWa)(ATn)

HI = SUM(HQs)

CONSTANTS Abbreviation Description BWa = Body weight, adult (kilograms) ATn = Averaging time non-carcinogens (days)	= 70	Abbreviation HQ =	Description Hazard Quotient Reference dose oral	Value see above see above
ATn = Averaging time non-carcinogens (days) EFo = Exposure frequency (days/year) EDo = Exposure duration (years) IRSa = Soil ingestion, adult (milligrams/day) FC = Fraction of contaminated soil ingested	= 250 = 25 = 100 = 0.5	RBC = EPC =	(milligrams/kilogram/day) Exposure-Point Concentration (milligrams per kilogram - calculated from site data - see Table 13)	

NOTE: This table is part of Ten Bears' September 2002 Report titled "Remedial Investigation / Feasibility Study Report, Former King Cole Vegetable Cannery," and should be viewed in that context. Refer to Table Notes page at the end of this section for explanation of abbreviations, references, and other notations.

EXCEL/01-17B-RIFSrpttables

Ten Bears Environmental, LLC

Page 52 of 56

August 2002

TABLE NOTES

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

- Standards indicated are for Cyclohexanone.
- Standards shown are for Chromium VI.
- *** Standards shown are for "free cyanide."

NOTES:

- 1. Relative elevation measurements were obtained by Ten Bears' Environmental personnel using a telescopic level referenced to a site datum and are not the result of a land survey.
- mS/cm = milliSiemens per dentimeter.
- 3. mg/L = milligrams per Liter
- 4. mg/kg = milligrams per kilogram
- 5. ND = not detected
- 6. <31 = For XRF, metal detected by XRF analysis, but below the quantitation limit. Indicated concentration is the quantitation limit.
- 7. Field screening for PCBs was performed in accordance with EPA Method 4020, using the Envirogard test kit.
- 8. Field screening for PAHs was performed in accordance with EPA Method 4035, using the Envirogard test kit.
- 9. <1 = For PCB/PAH screening, compounds not detected at concentration above the detection limit of 1 mg/kg.
- 10. NA = not applicable
- 11. NT = not tested
- 12. NL = not listed
- 13. BTEX = benzene, toluene, ethylbenzene, and xylenes.
- 14. All soil sample results reported on a dry weight basis, except TCLP analysis, which is reported "as-received."
- 15. Bold value or darkened cell indicates result that exceeds the corresponding screening value printed at left of table.
- 16. PQL = practical quantitation limit for laboratory analysis by CLP methods.
- 17. 8.9 ND = In tables 10A and 10B, analyte was not detected, value shown is 1/2 of the quantitation limit reported by the laboratory, inserted for risk-assessment purposes.

DATA QUALIFIERS

ORGANICS

- B = analyte was also detected in the blank
- D = compound quantitated on a diluted sample
- J = estimated value
- P = concentration difference between primary and confirmation columns > 25%
- X = The sample was analyzed by GC/MS and the aroclor 1254 concentration was not confirmed
- R = Rejected. The data are unusable (Note: the analyte may or may not be present).

INORGANICS

- B = not detected substantially above the level reported in laboratory or field blanks.
- E = estimated due to interference
- N = spike sample not within control limits
- * = duplicate analysis not within control limits
- R = Rejected. The data are unusable (Note: the analyte may or may not be present).
- L = The analyte is present, though the actual value is expected to be higher than reported.

Appendix 3: SU (TABLES 19 an	MMARY OF REMEDIAL ALTERNATIVE ANALYSIS d 20)	

SUMMARY OF INITIAL REMEDIAL TECHNOLOGY SCREENING

FORMER DRAPER KING COLE VEGETABLE CANNERY MILTON, DELAWARE

REASON FOR SCREENING	feasible in conjunction with other remedies	feasible in conjunction with other remedies	feasible	feasible	would not meet RAOs for Residential areas	variable effectiveness	variable effectiveness	variable effectiveness	limited effectiveness	feasible
SCREENING STATUS	RETAINED	RETAINED	RETAINED	RETAINED	REJECTED	REJECTED	REJECTED	REJECTED	REJECTED	RETAINED
IMPLEMENTABILITY	simple	simple	simple	simple	moderate	moderate	moderate	moderate	moderate	moderate
EFFECTIVENESS	high in conjunction with other remedies	high in conjunction with other remedies	high, but allows limited infiltration	high, with routine maintenance	high for most soils, though does not reduce COC concentrations	variable for volatile organics, limited for semi-volatile organics, pesticides, and polychlorinated biphenyls, does not address inorganics	variable for organics, does not address inorganics	variable for volatile organics, limited for semi-volatile organics, pesticides, and polychlorinated biphenyls, does not address inorganics	limited, not effective for deep conditions	high
REMEDIAL	, use restrictions	groundwater	soil cover	pavement cap	solidify / stabilize	in situ biological treatment	solvent extraction	soil vapor extraction	phytoremediation	excavation and off-site treatment / disposal
REMEDIAL DESPONSE ACTION	KESPONSE ACTION	Institutional Controls		Containment			In-Situ Treatment		3.	Removal

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EXCEL/01-17B-RIFSrpttables

September 2002

SUMMARY OF REMEDIAL ALTERNATIVES ANALYSIS

FORMER DRAPER KING COLE CANNERY MILTON, DELAWARE

		REMEDIAL ALTERNATIVE	/E
	-	2	3
	NO ACTION	EXCAVATION AND OFF-SITE DISPOSAL	SOILS UNDER PARKING LOT
CKITERIA			Sex
Overall Protection of Human Health	no	yes	
Complies with Laws and Regulations	OU	yes	yes
(Cleanup Standards)	not likely to be accepted	likely to be accepted; however, will be addressed by public	likely to be accepted; however, will be addressed by public comment
Community Acceptance		during construction	during construction
Remedation Monitoring		and the standard may allow remaining groundwater conditions	with maintenance
Permanent	no, does not address environmental conditions	probably, mough may also re-contaminate soil	
Technically Practicable	ОП	yes	yes
Estimated Restoration Time Frame	not applicable	2.0 to 2.5 months	1.0 to 1.5 months
Reduces Toxicity, Mobility, and Volume of Contaminants	OD	volume of impacted soils at the sile will be reduced, treatment at disposal facility may reduce toxicity, mobility, and volume of contaminants	volume of impacted soils at the sile will be reduced, treatment at disposal facility may reduce toxicity, and volume of pavement, toxicity and volume will remain the same, however at disposal facility may reduce toxicity, and volume of pavement, toxicity and volume of pavement, toxicity and volume will be significantly reduced
		, doid	high - minimal potential for exposure to remaining
Long-Term Effectiveness	οu		Contamination List anisimal potential for exposure during remedial
Short Term Effectiveness	ou	relatively high - potential exposures to remedial construction workers and community are manageable	nigh - minimal potential to exposure danny territoria.
Compatible with Proposed	OU	moderate	yes
O&M Required	not applicable	υo	yes, limited maintenance
Institutional Controls (i.e., such as	not applicable	yes	yes
deed restrictions) Required	OF PROBABLE REMEDIAL	MEDIAL COSTS	The second of the second secon
Construction Costs (Remedial	\$0	\$1.3 to \$3.9 million	\$150,000 to \$200,000
Construction Only)	0\$	0\$	\$500 to \$10,000
O&M Costs (annual)	2		

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Ten Bears Environmental, LLC

September 2002

EXCEL/01-17B-RIFSrpttables